| Michael Fox 202-564-2550 ET | OF L o |
|--|--------------------------------------|
| FFFECTIVE DATE OT/09/2018 68HE0H18F1534 7. FOR SOLICITATION INFORMATION CALL: Michael Fox 202-564-2550 8. OFFEI STAND 202-564-1. OFFEI STAND 202-564-1. OFFEI STAND 202-564-1. OFFEI STAND 202-564-1. | 3 |
| ### Nichael Fox 202-564-2550 ET 9. ISSUED BY CODE HPOD 10. THIS ACQUISITION IS UNRESTRICTED OR SET ASID 9. ISSUED BY CODE HPOD 10. THIS ACQUISITION IS UNRESTRICTED OR SET ASID 10. THIS ACQUISITION IS UNRESTRICTED OR SET ASID 12. SMALL BUSINESS WOMEN-OWNED SMALL BUSINESS WOMEN-OWNED SMALL BUSINESS WOMEN-OWNED SMALL BUSINESS EUGIBLE UNDER THE WOMEN-OW SMALL BUSINESS SMALL BUSINESS SERVICE-DISABLED SERVICE-DISABLED SERVICE-DISABLED SERVICE-DISABLED SERVICE-DISABLED SERVICE-DISABLED SERVICE-DISABLED SERVICE-DISABLED SMALL BUSINESS SERVICE-DISABLED SERVICE-DIS | 6. SOLICITATION ISSUE DATE |
| HPOD US Environmental Protection Agency William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460 11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MAKED SEE SCHEDULE 12. DISCOUNT TERMS TION UNLESS BLOCK IS MAKED SEE SCHEDULE 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) 14. METHOD OF SOLICITATION PAS (15 CFR 700) 15. DELIVER TO CODE OAR/OAP US Environmental Protection Agency 12. DISCOUNT TERMS US Environmental Protection Agency 14. METHOD OF SOLICITATION PAS (15 CFR 700) US Environmental Protection Agency 15. DELIVER TO US Environmental Protection Agency 16. ADMINISTERED BY CODE US Environmental Protection Agency 1200 Pennsylvania Avenue NW Mail Code: 62101J OAR/OAP Washington DC 20460 Washington DC 20460 | R DUE DATE/LOCAL TIME |
| US Environmental Protection Agency William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460 11. Delivery for FOB DESTINATION UNLESS BLOCK IS MARKED SEE SCHEDULE 15. Deliver TO CODE OAR/OAP US Environmental Protection Agency US Environmental Protection Agency 16. ADMINISTERED BY William Jefferson Clinton Building 1200 Pennsylvania Avenue NW Mail Code: 62101J OAR/OAP Washington DC 20460 WOSB) ELIGIBLE UNDER THE WOMEN-OW SMALL BUSINESS WOSB) ELIGIBLE UNDER THE WOMEN-OW SMALL BUSINESS Delivors SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS | DE: % FOR: |
| 11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED SEE SCHEDULE 12. DISCOUNT TERMS 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) 14. METHOD OF SOLICITATION RFQ SIFB 15. DELIVER TO CODE OAR/OAP HPOD US Environmental Protection Agency 1200 Pennsylvania Avenue NW Mail Code: 62101J OAR/OAP Washington DC 20460 13b. RATING 14. METHOD OF SOLICITATION RFQ SOLICITATION RFQ SIFB 14. METHOD OF SOLICITATION RFQ SIFB 15. DELIVER TO OAR/OAP MEDD US Environmental Protection Agency William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460 | NAICS: 541620 SIZE STANDARD: \$15.0 |
| MARKED □ SEE SCHEDULE 15. DELIVER TO CODE □ OAR/OAP CODE □ OAR/OAP CODE □ OAR/OAP HPOD US Environmental Protection Agency 1200 Pennsylvania Avenue NW Mail Code: 62101J OAR/OAP Washington DC 20460 RATED ORDER UNDER D 14. METHOD OF SOLICITATION □ RFQ □ IFB 16. ADMINISTERED BY CODE WE HPOD US Environmental Protection Agency William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460 | |
| OAR/OAP OAR/OAP US Environmental Protection Agency 1200 Pennsylvania Avenue NW Mail Code: 62101J OAR/OAP Washington DC 20460 OAR/OAP OAR/OAP Washington DC 20460 OAR/OAP OAR/OAP OAR/OAP Washington DC 20460 OAR/OAP OAR/OAP OAR/OAP Washington DC 20460 | □ RFP |
| US Environmental Protection Agency 1200 Pennsylvania Avenue NW William Jefferson Clinton Building Mail Code: 62101J 0AR/OAP Mail Code: 3803R Washington DC 20460 Washington DC 20460 | HPOD |
| | |
| | RTP FMC |
| WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 (b)(4) TELEPHONE NO. RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 [b)(4) TELEPHONE NO. | BELOW |
| IS CHECKED SEE ADDENDUM | |
| 19. 20. 21. 22. 23. ITEM NO. SCHEDULE OF SUPPLIES/SERVICES QUANTITY UNIT UNIT PRICE | 24. AMOUNT |
| DUNS Number: 038086125 This task order is issued in accordance with Task Order Ordering Procedures and hereby incorporates the base contract terms and conditions by reference. The effective date for performance to commence is July 9, 2018. The Contractor shall perform in accordance with the Attachment A Statement of Work (4 pages) and the accepted technical proposal and cost estimate dated May 21, 2018 (6 pages) in the amount of (Use Reverse and/or Attach Additional Sheets as Necessary) | |
| 25. ACCOUNTING AND APPROPRIATION DATA 26. TOTAL AWARD AMOUNT (For C | Povt. Use Only) |
| See schedule \$153,510.68 | |
| □ 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA □ ARE □ 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA □ ARE | |
| □ 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED. 30a. SIGNATURE OF OFFEROR/CONTRACTOR □ 29. AWARD OF CONTRACT: DATED . YOUR OFFER ON SO INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE HEREIN, IS ACCEPTED AS TO ITEMS: 31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICE) | RE SET FORTH |
| | |
| 30b. NAME AND TITLE OF SIGNER (Type or print) 30c. DATE SIGNED 31b. NAME OF CONTRACTING OFFICER (Type or print) Michael C. Fox | 31c. DATE SIGNED |

| 19. ITEM NO. | | 20. SCHEDULE OF SUPPLIES | S/SERVICES | 5 | | 21. QUANTITY | 22. UNIT | 23 UNIT P | | 24. AMOUNT |
|-----------------|--------------------|-----------------------------|------------|-------------------|-------------|--|-------------|---------------|-----------|--------------------------|
| | \$153,510.68 | 3. | | | | | | | | |
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| | 1 | Time-and-Materials | | | | | | | | |
| | | al ceiling price o | | | | | | | | |
| | | ctor is not author | | | he | | | | | |
| | Contractor | exceeds at its ow | n ris | к. | | | | | | |
| | The total of | obligated/funded c | eilin | g amount for | | | | | | |
| | this order | is currently \$17, | 640.88 | 8. This orde | ris | | | | | |
| | incremental | lly funded as deta | iled : | in Attachmen | t B | | | | | |
| | Summary of | Amounts and Ceili | ngs ai | nd Attachmen | t B | | | | | |
| | is hereby | incorporated (1 pa | ge). | | | | | | | |
| | Contracting | g Officer's Repres | entat: | ive (COR): | | | | | | |
| | 1 | r, (202) 343-9183, | | | gov | | | | | |
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| | Alternate (| | | | | | | | | |
| | | chalski, (202) 343 | -9882 | r | | | | | | |
| | Puchalski.N | Melissa@epa.gov | | | | | | | | |
| | The service | es of this order a | re fo | r severable. | | | | | | |
| | TOCOR: Mela | issa Puchalski | | | | | | | | |
| | Period of B | Performance: 07/09 | /2018 | to 07/08/20 | 19 | | | | | |
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| 0001 | Tribal Base | e Operations | | | | | | | | |
| | Accounting | Info | | | | | | | | |
| | 1 | D5-000A45-2505-185 | 8DC80! | 52-001 BFY: | 18 | | | | | |
| | | nd: C Budget Org: | | | | | | | | |
| | Continued . | | | , | , | | | | | |
| 32a. QUANTIT | Y IN COLUMN 21 HAS | BEEN | | | | | | ls. | | |
| RECEIV | /ED INSI | PECTED ACCEPTE | O, AND CO | NFORMS TO THE CON | NTRACT, E | XCEPT AS | NOTE | D: _ | | |
| 32b. SIGNATU | RE OF AUTHORIZED | GOVERNMENT REPRESENTATIV | E | 32c. DATE | 32d. PRIN | ITED NAME | AND 1 | TITLE OF AUTH | ORIZED G | OVERNMENT REPRESENTATIVE |
| 32e. MAILING A | ADDRESS OF AUTHOR | RIZED GOVERNMENT REPRESEN | ITATIVE | | 32f. TELE | 2f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE | | | | |
| | | | | | 22° E M/ | UL OF AUT | IODIZI | ED COVERNM | NT DEDDE | -CENTATIVE |
| | | | | | 32g. E-IVIA | AIL OF AUTE | IŲRIZI | ED GOVERNMI | ENI KEPKE | ESENTATIVE |
| 33. SHIP NUM | BER | 34. VOUCHER NUMBER | 35. AMOU | INT VERIFIED | 36. PAYM | ENT | | | | 37. CHECK NUMBER |
| | | | CORRECT | I FOR | COM | /PLETE | | PARTIAL [| FINAL | |
| PARTIAL | FINAL | | | | | | | ,L | | |
| 38. S/R ACCOL | UN1 NUMBER | 39. S/R VOUCHER NUMBER | 40. PAID E | ЗҮ | | | | | | |
| | | CORRECT AND PROPER FOR PAY | - | | 42a. RE | 42a. RECEIVED BY (<i>Print</i>) | | | | |
| 41b. SIGNATU | RE AND TITLE OF CE | RTIFYING OFFICER | 41 | 1c. DATE | 42b. RI | ECEIVED AT | (Loca | ation) | | |
| | | | | | 42c. DA | TE REC'D (| YY/M1 | И/DD) | 42d. TOTA | AL CONTAINERS |
| | | | | | | | | | | |

| | REFERENCE NO. OF DOCUMENT BEING CONTINUED | PAGE C | F |
|--------------------|---|--------|---|
| CONTINUATION SHEET | EP-W-16-015/68HE0H18F1534 | 3 | 3 |

NAME OF OFFEROR OR CONTRACTOR

| EM NO. (A) | SUPPLIES/SERVICES (B) | QUANTITY (C) | UNIT (D) | UNIT PRICE (E) | AMOUNT (F) |
|---------------|---|-----------------|-------------|-------------------|---------------|
| | 000A45 Budget (BOC): 2505 DCN - Line ID: | | | | |
| | 1858DC8052-001 | | | | |
| | Funding Flag: Complete Funded: \$15,000.00 | | | | |
| | Accounting Info: | | | | |
| | 17-18-B-58D5-102A45-2505-1858DC8052-002 BFY: 17 | | | | |
| | EFY: 18 Fund: B Budget Org: 58D5 Program (PRC): | | | | |
| | 102A45 Budget (BOC): 2505 DCN - Line ID: | | | | |
| | 1858DC8052-002 Funding Flag: Complete | | | | |
| | Funded: \$2,640.88 | | | | |
| | Tulided: 427010.00 | | | | |
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ATTACHEMENT A

Statement of Work

Title: Tribal Base Operation of the Network

Contract #: EP-W-16-015

Project #: 2004

Period of Performance: 7/9/2018 to 7/8/2019

EPA Key Personnel

Task Order Project Officer (TOPO)/Contract Level Project Officer (PO):

Melissa Puchalski Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9882

email: puchalski.melissa@epa.gov

Alternate TOPO:

Taylor Macy Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9183 email: macy.taylor@epa.gov

Contracting Officer (CO):

Mike Fox
Contracting Officer
Administrative Contract Service Center
1200 Pennsylvania Ave N.W.
Mail Code 3803R
Washington DC 20460

phone: (202) 564-2550 email: fox.michael@epa.gov

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term environmental monitoring network that measures changes in ambient air quality and assesses atmospheric deposition over broad geographic regions of the U.S. (https://www.epa.gov/castnet). Operating since 1987, CASTNET has evolved into a robust regional monitoring program which currently consists of approximately 95 monitoring stations nationwide. The Environmental Protection Agency (EPA) coordinates the operation of the network in cooperation with numerous federal, tribal, state and local partners.

The primary monitoring objectives of CASTNET are to:

- Provide high quality data on atmospheric deposition, rural ground level ozone and other forms of atmospheric pollution;
- Support the primary and secondary ozone NAAQS and provide data on NAAQS compliance in rural areas;
- Monitor the status and trends in regional air quality and atmospheric deposition;
- Assess and report on geographic patterns and long-term, temporal trends in ambient air pollution and atmospheric deposition;
- Improve our understanding of PM and ozone formation;
- Validate and improve atmospheric models;
- Provide data for health-based research and epidemiology studies;
- Assess the effectiveness of EPA's emission reduction programs; and
- Support science and ecosystem studies.

CASTNET sites measure weekly average concentrations of sulfate (SO₄²⁻), nitrate (NO₃⁻), ammonium (NH₄⁺), sulfur dioxide (SO₂), nitric acid (HNO₃), chloride (Cl⁻) and the base cations (Na⁺, K⁺, Mg²⁺and Ca²⁺) using a 3-stage filter pack. In addition, each site may make ancillary measurements, including hourly ozone (O₃), hourly meteorology, ammonia (NH₃) gas using passive devices, and trace-level gases. Trace-level gas monitors include reactive oxidized nitrogen (NOy), nitric oxide (NO), sulfur dioxide (SO₂) and carbon monoxide (CO). CASTNET O₃, meteorological, and trace gas measurements follow the requirements in the Code of Federal Regulations (CFR) and EPA's Quality Assurance Handbook.

II. PURPOSE

The primary purpose of this task order is to provide for routine activities and provisions associated with operating the CASTNET base program at Tribal monitoring sites. All tasks shall be performed in accordance with the contract's Statement of Work.

Tasks performed under this task order will cover the operation of all CASTNET tribal monitoring sites, excluding all sites covered under Task Order 2003.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in CLINs 1 through 21 of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare a Proposal

The Contractor shall prepare a Task Order Technical and Cost Proposal in accordance with the terms and conditions of contract clauses B.2 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract.

2. Base Operations

The contractor shall perform the tasks and subtasks listed in the SOW for Task Order 2004 as delineated in the CASTNET V contract SOW and Amec Foster Wheeler's proposal. Descriptions of the technical approach and methods are found in the CASTNET QAPP v 9.0 and Amec Foster Wheeler's technical proposal. The number of applicable sites, units and estimated hours for the tasks and CLINs, as described in the contract's SOW, that shall be delivered are as follows:

| CLIN | DESCRIPTION | SITES | UNITS | HOURS |
|------|--|-------|-------|-------|
| 2 | Dry Dep Filterpack w/ operator | 1 | 12 | 70 |
| 3 | Dry Dep Filterpack w/o operator | 5 | 60 | 349 |
| 4 | Ozone Monitoring w/ operator | 1 | 12 | 70 |
| 5 | Ozone Monitoring w/o operator | 2 | 21 | 123 |
| 7 | Meteorology w/o operator | 1 | 12 | 6 |
| 14 | Filter Media Analysis | 6 | 355 | 0 |
| 16 | Operation of an NADP AMoN site collocated with CASTNET | 1 | 12 | 2 |
| | TOTAL HOURS | | | 636 |

Attachment 1 describes which tasks and CLINs shall be performed at each site. The table above is a summary of Attachment 1. The table above shows SITE/YEAR as the number of CLINs ordered for that site per *12-months*. The UNIT is the number of site-months ordered for each CLIN.

V. DELIVERABLES AND SCHEDULE

1. Proposal

The contractor shall deliver a Task Order Technical and Cost Proposal in accordance with clause B.7 Task Order Ordering Procedures of the contract. The proposal shall be submitted 10 days after receipt of the SOW.

2. Monthly Progress Report

The contractor shall prepare and submit a monthly progress report by the 15th of each month summarizing the progress made, issues encountered or expected, work planned for the next reporting period and costs. These reports shall comply with contract clauses F.3 Reports of Work and F.5 Monthly Progress Report. Reports shall be delivered electronically.

3. Additional Deliverables

The contractor shall deliver the following reports electronically (as required under Task Order 2003) and will include data from the Tribal monitoring sites under this Task Order. Duplicate reports shall not be submitted.

Daily Data Submittal

Monthly Data Submittal

Quarterly Data Submittal

Quarterly Data Report

Annual Report

QA Quarterly Report

QA Annual Report

QA Annual Report

QA Annual Report

QA Quarterly Report

30 days after completion of quarters 1, 2, 3

30 days after completion of quarter 4

Distribution of Deliverables:

| Addressee | Copies |
|---|--------|
| EPA Contracting Officer (Mike Fox) | 1 |
| EPA Project Officer (Melissa Puchalski) | 1 |
| EPA Alternate (Taylor Macy) | 1 |

Attachment 1. Matrix of CLINs by CASTNET Site ID

| CITE ID | | | CL | INs | | | |
|---------|----|----|----|-----|----|-------|----|
| SITE_ID | 2 | 3 | 4 | 5 | 7 | 14 | 16 |
| ALC188 | 12 | | 12 | | | 59.11 | 12 |
| CHE185 | | 12 | | | 12 | 59.11 | |
| KIC003 | | 12 | | | | 59.11 | |
| NPT006 | | 12 | | 12 | | 59.11 | |
| RED004 | | 12 | | | | 59.11 | |
| SAN189 | | 12 | | 12 | | 59.11 | |
| total | 12 | 60 | 12 | 24 | 12 | 355 | 12 |
| counts | 1 | 5 | 1 | 2 | 1 | 6 | 1 |

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | |
|----------------------------------|------------------------|-------------|-------------|--|--|--|
| Period | Previous Amount | This Action | Amount | | | |
| Base Period | | \$17,640.88 | \$17,640.88 | | | |
| Total | - | \$17,640.88 | \$17,640.88 | | | |

| Total Task Order Ceiling | | | | | | |
|--------------------------|-----------------|--------------|--------------|--|--|--|
| Period | Previous Amount | This Action | Amount | | | |
| Base Period | | \$153,510.68 | \$153,510.68 | | | |
| Total | - | \$153,510.68 | \$153,510.68 | | | |

| AMENDMENT OF SOLICITATION/MODIFIC | ATION OF CO | NTRACT | 1. CONTRACT ID CODE | PAGE OF PAGES |
|--|---|--|---|---|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE | DATE | L 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) |
| P00001 | See Bloc | k 16C_ | PR-OAR-18-01161 | 2004 |
| 6. ISSUED BY CODE | HPOD | | 7. ADMINISTERED BY (If other than Item 6) | CODE |
| HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460 | uilding | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street | t. county. State and a | ZIP Code) | 9A. AMENDMENT OF SOLICITATION NO. | |
| WOOD ENVIRONMENT & INFRASTRUCTU Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | | DNS, INC. | 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDE EP-W-16-015 68HE0H18F1534 10B. DATED (SEE ITEM 13) | ER NO. |
| CODE 038086125 | FACILITY COD | F | | |
| OBE 038086125 | | | 06/28/2018 IENDMENTS OF SOLICITATIONS | |
| Items 8 and 15, and returning co separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an offe reference to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION DATA (If req | e to the solicitation OFFERS PRIOR or already submitted is received prior to | n and amendment number TO THE HOUR AND DAT ed , such change may be o the opening hour and d | E SPECIFIED MAY RESULT IN REJECTION OF made by telegram or letter, provided each telegr | T TO BE RECEIVED AT F YOUR OFFER If by |
| See Schedule | | Mec | increase. | \$30,000.00 |
| | CT/ORDER IS MO H IN ITEM 14, PU | DDIFIED TO REFLECT TO RSUANT TO THE AUTHO | CHANGES SET FORTH IN ITEM 14 ARE MADE HE ADMINISTRATIVE CHANGES (such as chan DRITY OF FAR 43.103(b). THORITY OF: | |
| D. OTHER (Specify type of modification | • | | | |
| X FAR 52.232-22 Limita | ation of | Funds | | |
| E. IMPORTANT: Contractor ∑ is not. 14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 | | | return copies to the is uding solicitation/contract subject matter where for | 181 |
| The purpose of this modifica | tion is t | o add increm | ental funding in the amo | ount of \$50,000.00 |
| to this task order. | | | | |
| This is a Time-and-Materials which the Contractor is not | | | | |
| The total obligated/funded coorder is incrementally funde and Attachment B is hereby i TOCOR: Melissa Puchalski Continued | d as deta ncorporat | ailed in Atta ced (1 page). | chment B Summary of Amou | unts and Ceilings |
| Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print) | ne document refer | enced in Item 9 A or 10A | 7 | |
| IOA. NAME AND THE OF SIGNER (1999 OF PRINT) | | | Michael C. Fox | OFFICER (1999 OF PRINT) |
| 15B. CONTRACTOR/OFFEROR | | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | 6L FETRONIC 5:GNATURE 07/27/2018 |

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

EP-W-16-015/68HE0H18F1534/P00001

PAGE OF

2

NAME OF OFFEROR OR CONTRACTOR

| TEM NO. | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|---------|---|----------|------|------------|--------|
| (A) | (B) | (C) | (D) | (E) | (F) |
| | LIST OF CHANGES: | | 1 | | |
| | Reason for Modification: Funding Only Action | | | | |
| | Obligated Amount for this Modification: \$50,000.00 | | | | |
| | New Total Obligated Amount for this Award: | | | | |
| | \$67,640.88 | | | | |
| | Incremental Funded Amount changed: from | | | | |
| | \$17,640.88 to \$67,640.88 | | | | |
| | 417,010100 00 407,010100 | | | | |
| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Obligated Amount for this Modification: \$50,000.00 | | | | |
| | Incremental Funded Amount changed from \$17,640.88 | | | | |
| | to \$67,640.88 | | | | |
| | FOB changed from Destination to | | | | |
| | | | | | |
| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 18-19-C-58D5-000A45-2505-1858DC8080-001 | | | | |
| | Beginning FiscalYear 18 | | | | |
| | Ending Fiscal Year 19 | | | | |
| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1858DC8080-001 | | | | |
| | Amount: \$50,000.00 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
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| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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Contract#: EP-W-16-015 Task Order#: 68HE0H18F1534

Project#: 2004

Modification: P00001

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | |
|----------------------------------|------------------------|-------------|-------------|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | |
| Base Period | \$17,640.88 | \$50,000.00 | \$67,640,88 | | | | |
| Total | \$17,640.88 | \$50,000.00 | \$67,640.88 | | | | |

| Total Task Order Ceiling | | | | | | | | | |
|--------------------------|-----------------|-------------|--------------|--|--|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | | | |
| Base Period | \$153,510.68 | - | \$153,510.68 | | | | | | |
| Total | \$153,510.68 | - | \$153,510.68 | | | | | | |

| AMENDMENT OF SOLICITATION/MODIFIC | NTRACT | | 1. CONTRACT ID CODE | OF PAGES | | | | |
|---|--|---------------------------|---|---|-------------------------|-----------------------------|--|--|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE I | DATE 4 | 4. REC | L PUISITION/PURCHASE REQ. NO. | 5. PROJECT | NO. (If applicable) | | |
| P00002 | See Bloc | k 16C | 2R-C | AR-19-00354 | 2004 | | | |
| 6. ISSUED BY CODE | HPOD | , | 7. ADI | MINISTERED BY (If other than Item 6) | CODE | | | |
| HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460 | ilding | | | | | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street | t, county, State and 2 | (IP Code) | (x) 9A | AMENDMENT OF SOLICITATION NO. | | | | |
| WOOD ENVIRONMENT & INFRASTRUCTU Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | DNS, INC. | 9B × 10, | A. MODIFICATION OF CONTRACT/ORDER NO. PW-16-015 BHE0H18F1534 B. DATED (SEE ITEM 13) | 0. | | | | |
| CODE 038086125 | FACILITY CODI | = | 0 | 6/28/2018 | | | | |
| | 11. THIS ITE | M ONLY APPLIES TO AN | | IENTS OF SOLICITATIONS | | | | |
| Items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided | | | | | | | | |
| B. THE ABOVE NUMBERED CONTRAG appropriation data, etc.) SET FORTH C. THIS SUPPLEMENTAL AGREEMEN | CT/ORDER IS MO H IN ITEM 14, PUI T IS ENTERED IN | DIFIED TO REFLECT THE | HE AD ORITY | SES SET FORTH IN ITEM 14 ARE MADE IN THE MINISTRATIVE CHANGES (such as changes in OF FAR 43.103(b). | | | | |
| D. OTHER (Specify type of modification X FAR 52.232-22 Limita | *** | Funde | | | | | | |
| | 9C36 | sign this document and | return | copies to the issuing | n office | | | |
| E.IMPORTANT: Contractor \(\times\) is not 14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 The purpose of this modificato this task order. | Organized by UC | F section headings, inclu | uding s | olicitation/contract subject matter where feasib | le.) | 0,000.00 | | |
| This is a Time-and-Materials which the Contractor is not | | | | | | | | |
| The total obligated/funded corder is incrementally funde and Attachment B is hereby i | d as deta | iled in Atta | chm | = " | | | | |
| TOCOR: Melissa Puchalski | | | | | | | | |
| Continued | | | | | | | | |
| Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print) | ne document refer | enced in Item 9 A or 10A. | 10A, as heretofore changed, remains unchanged and in full force and effect. 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Michael C. Fox | | | | | |
| 15B. CONTRACTOR/OFFEROR | | 15C. DATE SIGNED | 16B. | UNITED STATES OF AMERICA | L FCTRONIC S:GNATURE | 16C. DATE SIGNED 03/21/2019 | | |
| (Signature of person authorized to sign) | | | | (Signature of Contracting Officer) | | 55,21,2015 | | |

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE

 EP-W-16-015/68HE0H18F1534/P00002
 2

NAME OF OFFEROR OR CONTRACTOR

WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.

| ITEM NO. | SUPPLIES/SERVICES | QUANTITY | | UNIT PRICE | AMOUNT |
|----------|---|----------|-----|------------|--------|
| (A) | (B) | (C) | (D) | (E) | (F) |
| | LIST OF CHANGES: | | | | |
| | Reason for Modification: Funding Only Action | | | | |
| | Obligated Amount for this Modification: \$50,000.00 | | | | |
| | New Total Obligated Amount for this Award: | | | | |
| | \$117,640.88 | | | | |
| | Incremental Funded Amount changed: from | | | | |
| | \$67,640.88 to \$117,640.88 | | | | |
| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Obligated Amount for this Modification: \$50,000.00 | | | | |
| | Incremental Funded Amount changed from \$67,640.88 | | | | |
| | to \$117,640.88 | | | | |
| | FOB changed from Destination to | | | | |
| | FOB Changed Irom Describation to | | | | |
| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 19-20-C-58D5-000A45-2505-1958DC9021-001 | | | | |
| | Beginning FiscalYear 19 | | | | |
| | Ending Fiscal Year 20 | | | | |
| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1958DC9021-001 | | | | |
| | Amount: \$50,000.00 | | | | |
| | 7 AM | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
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| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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OF

2

Contract#: EP-W-16-015 Task Order#: 68HE0H18F1534

Project#: 2004

Modification: P00002

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | | | |
|----------------------------------|-----------------|-------------|--------------|--|--|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | | | |
| Base Period | \$67,640,88 | \$50,000.00 | \$117,640,88 | | | | | | |
| Total | \$67,640.88 | \$50,000.00 | \$117,640.88 | | | | | | |

| Total Task Order Ceiling | | | | | | | | | |
|--------------------------|-----------------|-------------|--------------|--|--|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | | | |
| Base Period | \$153,510.68 | - | \$153,510.68 | | | | | | |
| Total | \$153,510.68 | - | \$153,510.68 | | | | | | |

| AMENDMENT OF SOLICITATION/MODIFIC | ATION OF CO | ONTRACT | 1 | . CONTRACT ID CODE | OF PAGES | |
|---|--|--|---|---|---|---------------------|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE | DATE | 4. REQUI | SITION/PURCHASE REQ. NO. | 5. PROJECT | NO. (If applicable) |
| P00003 | See Bloo | ck 16C | PR-OA | R-19-00753 | 2004 | |
| 6. ISSUED BY CODE | HPOD | | 7. ADMII | NISTERED BY (If other than Item 6) | CODE | |
| HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460 | ilding | | | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street | county State and | ZIP Code) | (x) 9A. A | MENDMENT OF SOLICITATION NO. | | |
| WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | | | | MENDMENT OF SOCIETATION NO. ATED (SEE ITEM 11) MODIFICATION OF CONTRACT/ORDER IN $\mathbb{W} = 16 - 015$ IE $0H18F1534$ DATED (SEE ITEM 13) | NO. | |
| CODE 038086125 | FACILITY COD | ·E | 565 700 | | | |
| ODE 038086125 | | 'C EM ONLY APPLIES TO AN | | /28/2018 | | |
| Items 8 and 15, and returning co separate letter or electronic communication which incl RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to each letter or electronic communication makes referent 12. ACCOUNTING AND APPROPRIATION DATA (if req. | ludes a reference RECEIPT OF OI change an offer a nce to the solicita | to the solicitation and am FFERS PRIOR TO THE F already submitted , such c tion and this amendment, | mendment HOUR AN change ma it, and is re | D DATE SPECIFIED MAY RESULT IN REJ ay be made by letter or electronic communi- ceived prior to the opening hour and date s | LEDGEMENT TECTION OF YOU ication, provided specified. | TO BE DUR I |
| See Schedule | uirea) | Net | Incr | ease: \$ | 31,192.9 | 93 |
| | CT/ORDER IS MO H IN ITEM 14, PU | ODIFIED TO REFLECT TO IRSUANT TO THE AUTH | THE ADMI HORITY O | S SET FORTH IN ITEM 14 ARE MADE IN T NISTRATIVE CHANGES (such as changes F FAR 43.103(b). | | |
| D. OTHER (Specify type of modification | and authority) | | | | | |
| X FAR 52.232-22 Limita | tion of | Funds | | | | |
| E. IMPORTANT: Contractor X is not | is required to | o sign this document and | d return _ | copies to the issuir | ng office. | |
| 14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 | | | | | | |
| The purpose of this modifica | tion is t | to add increm | menta] | t tunding in the amour | nt of \$3 | 1,192.93 |
| to this task order. | | | | | | |
| This is a Time-and-Materials which the Contractor is not | | | | (E) = (| | |
| The total obligated/funded corder is incrementally funde and Attachment B is hereby i TOCOR: Melissa Puchalski Continued | d as deta ncorporat | ailed in Atta ted (1 page). | achmer • | nt B Summary of Amount | ts and C | eilings |
| Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print) | ie accument refe | rencea in Item 9 A or 10A | | ofore changed, remains unchanged and in ME AND TITLE OF CONTRACTING OFFI | | |
| 15B. CONTRACTOR/OFFEROR | 15C. DATE SIGNED | 16B. UN | ael C. Fox IITED STATES OF AMERICA | FL FCTRONIC S:GNATURE | 16C. DATE SIGNED 04/19/2019 | |
| (Signature of parson sutherized to sign) | | | | (Signature of Contracting Officer) | | -1, 10, 2010 |

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE

 EP-W-16-015/68HE0H18F1534/P00003
 2

NAME OF OFFEROR OR CONTRACTOR

WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.

| M NO. | SUPPLIES/SERVICES | QUANTITY | | UNIT PRICE | AMOUNT |
|-------|--|----------|-----|------------|--------|
| A) | (B) | (C) | (D) | (E) | (F) |
| | LIST OF CHANGES: | | | | |
| | Reason for Modification: Funding Only Action | | | | |
| | Obligated Amount for this Modification: \$31,192.93 | | | | |
| | New Total Obligated Amount for this Award: | | | | |
| | \$148,833.81 | | | | |
| | | | | | |
| | Incremental Funded Amount changed: from | | | | |
| | \$117,640.88 to \$148,833.81 | | | | |
| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Obligated Amount for this Modification: \$31,192.93 | | | | |
| | Incremental Funded Amount changed from | | | | |
| | \$117,640.88 to \$148,833.81 | | | | |
| | FOB changed from Destination to | | | | |
| | NEW ACCOUNTANCE CODE ADDED | | | | |
| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 18-19-B-58D5-000A45-2505-1958DC9040-001 | | | | |
| | Beginning FiscalYear 18 | | | | |
| | Ending Fiscal Year 19 | | | | |
| | Fund (Appropriation) B | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1958DC9040-001 | | | | |
| | Amount: \$31,192.93 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | And the second s | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
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| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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OF

2

Contract#: EP-W-16-015 Task Order#: 68HE0H18F1534

Project#: 2004

Modification: P00003

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | | | |
|----------------------------------|------------------------|-------------|--------------|--|--|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | | | |
| Base Period | \$117,640,88 | \$31,192.93 | \$148,833.81 | | | | | | |
| Total | \$117,640.88 | \$31,192.93 | \$148,833.81 | | | | | | |

| Total Task Order Ceiling | | | | | | | | | |
|--------------------------|-----------------|-------------|--------------|--|--|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | | | |
| Base Period | \$153,510.68 | - | \$153,510.68 | | | | | | |
| Total | \$153,510.68 | - | \$153,510.68 | | | | | | |

| AMENDME | ENT OF SOLICITATION/MODIFIC | CATION OF CO | ONTRACT | 1. CONTRACT ID CODE | | PAGE 1 | PAGES 2 | |
|--|--|---|---|---|---|--|---------------------------|--|
| 2. AMENDME | NT/MODIFICATION NO. | 3. EFFECTIVE | DATE 4 | . REQUISITION/PURCHASE REQ. | NO. 5. I | PROJECT | NO. (If applicable) | |
| P00004 | | See Bloo | ck 16C | | 20 | 004 | | |
| 6. ISSUED BY | CODE | | | 7. ADMINISTERED BY (If other than | n Item 6) CO | DE | | |
| William 1200 Pe Mail Co | ronmental Protection Jefferson Clinton Bonnsylvania Avenue, Node: 3803R | uilding | | | | | | |
| | ADDRESS OF CONTRACTOR (No., stree | et, county, State and | ZIP Code) | 9A. AMENDMENT OF SOLICITA | TION NO. | | | |
| WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 | | | | 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTI EP-W-16-015 68HE0H18F1534 10B. DATED (SEE ITEM 13) | | | | |
| CODE 03 | 38086125 | FACILITY COD | E | 06/28/2018 | | | | |
| | 6 00 0 10 5 (E),E)(5 | 11. THIS ITE | EM ONLY APPLIES TO AN | ENDMENTS OF SOLICITATIONS | | | | |
| Items 8 and separate le RECEIVED OFFER. If | t acknowledge receipt of this amendment 1 15, and returning count tter or electronic communication which inc 0 AT THE PLACE DESIGNATED FOR THE by virtue of this amendment you desire to or electronic communication makes reference. | opies of the ameno cludes a reference E RECEIPT OF O change an offer a | dment; (b) By acknowledg to the solicitation and am FFERS PRIOR TO THE H already submitted, such cl | ng receipt of this amendment on ea endment numbers. FAILURE OF Y DUR AND DATE SPECIFIED MAY I ange may be made by letter or elec | ch copy of the offer si OUR ACKNOWLEDG RESULT IN REJECTION Communication | ubmitted; SEMENT 1 ON OF YO n, provided | or (c) By TO BE DUR | |
| | TING AND APPROPRIATION DATA (If red | | 100011 11 | Decrease: | 14,0000 8,000 90 | 3 , 920. | . 94 | |
| | 13. THIS ITEM ONLY APPLIES TO M | MODIFICATION O | F CONTRACTS/ORDERS. | IT MODIFIES THE CONTRACT/OR | DER NO. AS DESCR | IBED IN IT | ΓΕΜ 14. | |
| CHECK ONE | A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRA appropriation data, etc.) SET FORT | | | | | | | |
| | C. THIS SUPPLEMENTAL AGREEMEN | NT IS ENTERED I | NTO PURSUANT TO AUT | HORITY OF: | | | | |
| | D. OTHER (Specify type of modification | n and authority) | | | | | | |
| X | FAR 52.232-22 Limita | ation of | Funds | | | | | |
| E. IMPORTAN | IT: Contractor X is not | is required t | o sign this document and | eturn cop | pies to the issuing offi | ce. | | |
| 14. DESCRIP | TION OF AMENDMENT/MODIFICATION mber: 038086125 | (Organized by U | CF section headings, inclu | ding solicitation/contract subject ma | tter where feasible.) | | | |
| The pur | pose of this modifica | ation is | to de-obligat | e funding in the a | mount of \$2 | 23,92 | 0.94 from | |
| this ta | sk order. | | | | | | | |
| | Melissa Puchalski | | | | | | | |
| | CHANGES: | | | | | | | |
| | for Modification: Fur | 167 | =4 | | | | | |
| | ed Amount for this Mo | | | | | | | |
| | al Obligated Amount f | | | 12.8/ | | | | |
| | ntal Funded Amount ch 3.81 to \$124,912.87 | langed. | from | | | | | |
| 7140,00 | J.J1 CO 9124, J12.0/ | | | | | | | |
| Continu | | | | | | | | |
| | ovided herein, all terms and conditions of t IND TITLE OF SIGNER (Type or print) | renced in Item 9 A or 10A. | 10A, as heretofore changed, remains unchanged and in full force and effect. 16A, NAME_AND_TITLE_OF_CONTRACTING_OFFICER_(Type or print) | | | | | |
| .V IVAIVIL A | into the of olditer (type of pilling | | | Michael C. Fox | TOTAL OFFICER | (1ypa or L | anny | |
| 15B. CONTRA | ACTOR/OFFEROR | | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERIC | :A | | 16C. DATE SIGNED | |
| | | | | March Jan | FL FC 5:GI | TRONIC NATURE | 10/16/2019 | |
| | (Signature of person authorized to sign) | | | (Signature of Contract | ting Officer) | | | |

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 EP-W-16-015/68HE0H18F1534/P00004
 2
 2

NAME OF OFFEROR OR CONTRACTOR

| ITEM NO. | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|-----------------|---|----------|------|------------|--------|
| (A) | (B) | | (D) | (E) | (F) |
| | CHANGES FOR LINE ITEM NUMBER: 1 | 1 | | | |
| | Obligated Amount for this Modification: | | | | |
| | -\$23,920.94 | | | | |
| | Incremental Funded Amount changed from | | | | |
| | \$148,833.81 to \$124,912.87 | | | | |
| | CHANGES FOR ACCOUNTING CODE: | | | | |
| | 19-20-C-58D5-000A45-2505-1958DC9021-001 | | | | |
| | Amount changed from \$50,000.00 to \$26,079.06 | | | | |
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| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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| so | | | | IMERCIAL ITEMS | | EQUISITION NU | | -1 | PAGE | 1 50 | |
|--|---|---|--|--------------------------------|--|--------------------------------------|---------------------------------|--|--|-------------|-------------------------------|
| 0.000170407410 | OFFERO | R TO COMPLETE | BLOCKS 12, 17, 23 | 3, 24, & 30 4. ORDER NUMBER | PR- | -OAR-18 | APSONERS IN TRACE | . SOLICITATION NU | 1 | 3 | To any instruction |
| 2. CONTRACT NO. EP-W-16-0 | 15 | | 3. AWARD/ EFFECTIVE DA 07/09/2 | | | | 330 | et, abbeidreprindigeerfysist, scannablegas, accord | on the control of the | | 6. SOLICITATION ISSUE DATE |
| | SOLICITATION MATION CALL: | a. NAME Micha | ael Fox | | | b. TELEPHONE 202–564 | | (No collect ca | alls) 8. OFFE E1 | | E/LOCAL TIME |
| 9. ISSUED BY | | | CODE | HPOD : | 10. THIS ACQL | JISITION IS | X UNF | ESTRICTED OR | SETASI | DE: | % FOR: |
| HPOD US Enviro William J 1200 Penn Mail Code Washingto | efferson sylvania : 3803R | Clinton B Avenue, N | uilding | | SMALL BU HUBZONE BUSINES: SERVICE VETERAN SMALL BU | E SMALL S -DISABLED I-OWNED | (WOSE | N-OWNED SMALL E 8) ELIGIBLE UNDER BUSINESS PROGE SB | THE WOMEN-O | NAICS: 5 | 41620 NDARD: \$15.0 |
| 11. DELIVERY FOR | | 12. DISCOUNT TER | MS | | □ 42- TUG | CONTRACT IS | | 13b. RATING | | | |
| TION UNLESS MARKED SEE SCHE | | | | | RATE | ED ORDER UNI S (15 CFR 700) | | 14. METHOD OF | SOLICITATION | | |
| 15. DELIVER TO | | C | OAR/OAE | | 16. ADMINISTI | ERED BY | | 1 | | | |
| OAR/OAP US Enviro 1200 Penn Mail Code OAR/OAP Washingto | sylvania e: 62101J | Avenue NW | | , | Willian 1200 Pe Mail Co | n Jeffe | rson (ania <i>P</i> 803R | otection Clinton Bu Evenue, N. | ilding | | |
| 17a. CONTRACTOR | Z/ CODE | 038086125 | . FACILIT | ТҮ | | WILL BE MAD | | | CODE | RTP F | MC |
| Attn: JOSEP 751 Arbor Wa Ste 180 Blue Bell PA | ay | | | | RTP-Fin 109 TW www2.ep | nance C Alexan | enter der Dr financ | cotection (AA216-01 ive :ial/contr | _) | | |
| ☐17b. CHECK IF R | EMITTANCE IS DIFF | ERENT AND PUT SU | JCH ADDRESS IN OFF | FER | 18b. SUBMIT I IS CHEC | | DDRESS SH SEE ADDEN | OWN IN BLOCK 18a | UNLESS BLOCI | K BELOW | |
| 19. | | 0.00 | 20. | | | 21. | 22. | 23. | | 24 | |
| DUNS Number: 038086125 This task order is issued in accordance with Task Order Ordering Procedures and hereby incorporates the base contract terms and conditions by reference. The effective date for performance to commence is July 9, 2018. The Contractor shall perform in accordance with the Attachment A Statement of Work (4 pages) and the accepted technical proposal and cost estimate dated May 31, 2018 (8 pages) in the amount of (Use Reverse and/or Attach Additional Sheets as Necessary) | | | | | | | | | | | |
| 25. ACCOUNTING | | IATION DATA | | | | | 26 | . TOTAL AWARD | AMOUNT (For 481.00 | Govt. Use (| Only) |
| 27a. SOLICITA 27b. CONTRAC 28. CONTRAC COPIES TO IS | TION INCORPOR CT/PURCHASE OF TOR IS REQUIRE ISUING OFFICE. | RDER INCORPOR D TO SIGN THIS I CONTRACTOR A | RATES BY REFERE DOCUMENT AND R GREES TO FURNIS | | 12-5 IS ATTA | CHED. 29. AWARD (DATED | ADDENDA | DENDA A ACT: | ☐ ARE | □ ARE | 4) (0) |
| | | | TONS SPECIFIED. | | | | | AS TO ITEMS: | | | |
| 30a. SIGNATURE O | F OFFEROR/CONTR | RACTOR | | | 31a. UNITED | STATES OF A | MERICA (SIG | GNATURE OF CONT | RACTING OFFIC | ER) | |
| 30b. NAME AND | TITLE OF SIGNER | R (Type or print) | | 30c. DATE SIGNED | 11 11 | OF CONTRA | | FICER (Type or p | rint) | 31c. D. | ATE SIGNED |

| 19. ITEM NO. | | 20. SCHEDULE OF SUPPLIES | S/SERVICES | | | 21. QUANTITY | 22. UNIT | 23. UNIT PI | | 24. AMOUNT |
|---|---|--|------------|---|-----------|-----------------|-------------|----------------|-----------|--------------------------|
| | \$138,481.00 | 0. | | | | | | | | |
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| | Concractor | caccods at 1t3 ow | 11 1137 | | | | | | | |
| | The total of | obligated/funded c | eiling | g amount for | | | | | | |
| | this order | is currently \$15, | 000.00 |). This orde | er is | | | | | |
| | incremental | lly funded as deta | iled i | n Attachmen | ıt B | | | | | |
| | Summary of | Amounts and Ceili | ngs an | nd Attachmen | it B | | | | | |
| | is hereby | incorporated (1 pa | ge). | | | | | | | |
| | Contracting | g Officer's Repres | entati | ve (COR) fo | r | | | | | |
| | this task | | circuci | 100 (001) 10 | - | | | | | |
| | Macy Taylor | r, (202) 343-9183, | Масу. | Taylor@epa. | gov | | | | | |
| | Alternate (| SOD. | | | | | | | | |
| | | con: achley, (202) 343- | 9621 | | | | | | | |
| | 1 | regory@epa.gov | J 0 Z 1 , | | | | | | | |
| | | regeryespargev | | | | | | | | |
| | The service | es of this order a | re for | severable. | | | | | | |
| | TOCOR: Tay | lor Macy | | | | | | | | |
| | Period of I | Performance: 07/09 | /2018 | to 07/08/20 | 19 | | | | | |
| 0001 | Non-Routine | e Maintenance and | Repair | s of CASTNE | T | | | | | |
| | Equipment | | | | | | | | | |
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| | Accounting | Info: | | | | | | | | |
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| 32a. QUANTIT | Y IN COLUMN 21 HAS | BEEN | | | | | | | | |
| RECEIV | | W. Golden Standard St | | NFORMS TO THE CON | | | | | | |
| 32b. SIGNATUI | RE OF AUTHORIZED | GOVERNMENT REPRESENTATIV | E | 32c. DATE | 32d. PRIN | ITED NAME | AND 1 | TITLE OF AUTH | ORIZED G | OVERNMENT REPRESENTATIVE |
| 32e. MAILING A | ADDRESS OF AUTHO | RIZED GOVERNMENT REPRESEN | NTATIVE | | 32f. TELE | PHONE NUI | MBER | OF AUTHORIZ | ED GOVER | NMENT REPRESENTATIVE |
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| 33. SHIP NUMI | | 34. VOUCHER NUMBER | 25 4440111 | NT VERIFIED | 20 DAYA | IFAIT. | | | | 37. CHECK NUMBER |
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| 38. S/R ACCOUNT NUMBER 39. S/R VOUCHER NUMBER 40. PAID BY | | | | | • | | | | | |
| 41a. I CERTIFY | Y THIS ACCOUNT IS C | CORRECT AND PROPER FOR PAY | MENT | | 42a. RI | ECEIVED BY | ' (Prim | ") | | |
| 41b. SIGNATUI | RE AND TITLE OF CE | RTIFYING OFFICER | 410 | c. DATE | 42b. R | ECEIVED AT | (Loca | ntion) | | |
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| CONTINUATION CHEET | REFERENCE NO. OF DOCUMENT BEING CONTINUED | | | | |
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| CONTINUATION SHEET | EP-W-16-015/68HE0H18F1536 | 3 | 3 | | |

NAME OF OFFEROR OR CONTRACTOR

| EM NO. (A) | SUPPLIES/SERVICES (B) | QUANTITY (C) | UNIT (D) | UNIT PRICE (E) | AMOUNT (F) |
|---------------|--|-----------------|-------------|-------------------|---------------|
| | 18-19-C-58D5-000A45-2505-1858DC8053-001 BFY: 18 EFY: 19 Fund: C Budget Org: 58D5 Program (PRC): 000A45 Budget (BOC): 2505 DCN - Line ID: 1858DC8053-001 Funding Flag: Complete | | | | |
| | Funded: \$15,000.00 | | | | |
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ATTACHEMENT A

Statement of Work

Title: Non-routine Maintenance and Repairs of

CASTNET Equipment

Contract #: EP-W-16-015

Project #: 2006

Period of Performance: 7/9/2018 – 7/8/2019

EPA Key Personnel

Task Order Project Officer (TOPO):

Taylor Macy Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9183

Alternate TOPO:

email: macy.taylor@epa.gov

Greg Beachley
Clean Air Markets Division (OAP/OAR/CAMD)
1200 Pennsylvania Ave., NW
Mail Code 6204M
Washington, DC 20460
phone: (202) 343-9621
email: beachley.gregory@epa.gov

Contracting Officer (CO):

email: fox.michael@epa.gov

Michael Fox Contracting Officer Administrative Contract Service Center 1200 Pennsylvania Ave N.W. Mail Code 3803R Washington DC 20460 phone: (202) 564-2550

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term environmental monitoring network that measures changes in ambient air quality and assesses atmospheric deposition over broad geographic regions of the U.S. (https://www.epa.gov/castnet). Operating since 1987, CASTNET has evolved into a robust regional monitoring program which currently consists of approximately 95 monitoring stations nationwide. The Environmental Protection Agency (EPA) coordinates the operation of the network in cooperation with numerous federal, tribal, state and local partners.

The primary monitoring objectives of CASTNET are to:

- Provide high quality data on atmospheric deposition, rural ground level ozone and other forms of atmospheric pollution;
- Support the primary and secondary ozone NAAQS and provide data on NAAQS compliance in rural areas;
- Monitor the status and trends in regional air quality and atmospheric deposition;
- Assess and report on geographic patterns and long-term, temporal trends in ambient air pollution and atmospheric deposition;
- Improve our understanding of PM and ozone formation;
- Validate and improve atmospheric models;
- Provide data for health-based research and epidemiology studies;
- Assess the effectiveness of EPA's emission reduction programs; and
- Support science and ecosystem studies.

CASTNET sites measure weekly average concentrations of sulfate (SO₄²⁻), nitrate (NO₃⁻), ammonium (NH₄⁺), sulfur dioxide (SO₂), nitric acid (HNO₃), chloride (Cl⁻) and the base cations (Na⁺, K⁺, Mg²⁺and Ca²⁺) using a 3-stage filter pack. In addition, each site may make ancillary measurements, including hourly ozone (O₃), hourly meteorology, ammonia (NH₃) gas using passive devices, and trace-level gases. Trace-level gas monitors include reactive oxidized nitrogen (NOy), nitric oxide (NO), sulfur dioxide (SO₂) and carbon monoxide (CO). CASTNET O₃, meteorological, and trace gas measurements follow the requirements in the Code of Federal Regulations (CFR) and EPA's Quality Assurance Handbook.

II. PURPOSE

The primary purpose of this task order is to perform non-routine maintenance on CASTNET equipment and infrastructure repairs due to unforeseen circumstances, including errors or faulty parts/equipment on the part of manufacturers, or the discontinuation of measurements at current monitoring sites. This work should be considered out of scope from the base operations task orders in place for Task Orders 0103 and 0104 (CASTNET Base Program and CASTNET Tribal

Base Program, respectively), which cover routine, expected maintenance. The TOPO may provide technical direction for performing specific tasks under this task order.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in Task 22 (Level of Effort) of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare a Proposal

The Contractor shall prepare a Task Order Proposal and Cost Estimate in accordance with the terms and conditions of contract clauses B.2 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract, using time and materials with a cost ceiling, and will submit it to EPA.

2. Perform Non-Routine Maintenance and Repairs

2.1 Repair of CASTNET shelters

The site shelter enclosures themselves are important to allow for proper operating conditions to be maintained to meet rigorous quality assurance standards for regulatory NAAQS measurements. Most of the shelters in the network have been in place for upwards of 10 years or more. They are subject to normal wear and tear and also exposed to harsh weather conditions that may cause significant damage over time. Cost analyses show that repair of these shelters is much more cost-effective than a replacement. The contractor will monitor shelters for repair needs and arrange and conduct the repairs when needed. The repairs will range from minor maintenance to major repairs such as roof or floor replacements. Repairs should be made in a way to minimize their impact on the sampling schedule.

2.2 Disposition of meteorological sensors and equipment

Over time, CASTNET equipment becomes unusable due to malfunctions, normal wear from routine use, or obsolete technology. The contractor is tasked with collecting that equipment and storing it until the point in which it is no longer of any potential use in the network. At that point, unusable equipment should be disposed of properly. The contractor shall oversee the development of a plan to dispose of unusable equipment. That plan should include an inventory of each piece of equipment with an EPA property decal prior to removal of the decal. Also, any hardware that may potentially contain any agency-sensitive information should be sanitized prior to its inclusion in the 'EPA-property disposition plan'. This is a continuation of work that began under Task Order 0006.

2.3 Nafion Dryer Installation

CASTNET ozone analyzers located in regions that experience humid weather tend to experience moisture issues causing slow responses during the QC checks and noisy 1-

minute data. With approval from EPA, the contractor shall purchase and install up to 40 nafion dryer lines at select CASTNET sites. The nafion dryer shall be placed in-line with the sampling line to dry the air as it enters the temperature controlled shelter. When appropriate the contractor should schedule the installation during a routine calibration trip.

2.4 Additional Maintenance, Repairs and Equipment Purchases

Additional technical direction will be given as other non-routine maintenance and repairs arise on CASTNET equipment and infrastructure. This task includes, but is not limited to aging ozone analyzers, flow controllers and data loggers.

V. DELIVERABLES

1. Technical Proposal & Cost Estimate

The contractor shall deliver a Task Order Proposal and cost estimate in accordance with clause B.7 Task Order Ordering Procedures of the contract.

2. Monthly Progress Report

The contractor shall prepare and submit a monthly progress report by the 15th of each month summarizing the progress made, issues encountered or expected, work planned for the next reporting period and costs. These reports shall comply with contract clauses F.1 Monthly Progress Report and F.5 Reports of Work. Reports shall be delivered electronically.

Additional deliverables may be required as part of future technical direction.

VI. SCHEDULE

The task order proposal shall be delivered within 10 days of issuance of this task order.

Distribution of Deliverables:

| Addressee | Copies |
|--|--------|
| EPA Contracting Officer (Mike Fox) | 1 |
| EPA Task Order Project Officer (Taylor Macy) | 1 |
| EPA Alternate TOPO (Gregory Beachley) | 1 |

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | |
|----------------------------------|-----------------|-------------|-------------|--|--|--|
| Period | Previous Amount | This Action | Amount | | | |
| Base Period | | \$15,000.00 | \$15,000.00 | | | |
| Total | E- | \$15,000.00 | \$15,000.00 | | | |

| | Total Task Order Ceiling | | | | | | |
|-------------|--------------------------|--------------|--------------|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | |
| Base Period | - | \$138,481.00 | \$138,481.00 | | | | |
| Total | - | \$138,481.00 | \$138,481.00 | | | | |

| AMENDMENT OF SOLICITATION/MODIFIC | ATION OF CO | ONTRACT | | I. CONTRACT ID CODE | PAGE | OF PAGES | | |
|---|---|---|-----------------------------------|---|--------------------------|-----------------------------|--|--|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE | DATE | 4. REQU | ISITION/PURCHASE REQ. NO. | 5. PROJECT | NO. (If applicable) | | |
| P00001 | See Bloo | ck 16C | PR-OA | R-18-01162 | 2006 | | | |
| 6. ISSUED BY CODE | HPOD | | 7. ADMI | NISTERED BY (If other than Item 6) | CODE | | | |
| HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460 | uilding | | | | | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street | t county State and | ZIP Code) | Iga <i>d</i> | MENDMENT OF SOLICITATION NO. | | | | |
| WOOD ENVIRONMENT & INFRASTRUCTU Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | ONS, INC. | ya. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-16-015 68HE0H18F1536 | | | | | | |
| CODE 038086125 | FACILITY COD | F | 600 890 | DATED (SEE ITEM 13) /28/2018 | | | | |
| ODE 038086125 | | | | 7 28 7 20 1 8 NTS OF SOLICITATIONS | | | | |
| separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF contract of this amendment you desire to change an offer reference to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION DATA (If required) | OFFERS PRIOR er already submitt is received prior t | TO THE HOUR AND DAT ed , such change may be to the opening hour and d | TE SPEC e made by date spec | IFIED MAY RESULT IN REJECTION OF YOU telegram or letter, provided each telegram ified. | OUR OFFER If | by | | |
| See Schedule | | | | | | | | |
| | CT/ORDER IS MO H IN ITEM 14, PU | DDIFIED TO REFLECT TI RSUANT TO THE AUTH | THE ADM HORITY C | S SET FORTH IN ITEM 14 ARE MADE IN T NISTRATIVE CHANGES (such as changes F FAR 43.103(b). | | | | |
| D. OTHER (Specify type of modification | • | | | | | | | |
| X FAR 52.232-22 Limita | ation of | Funds | | | | | | |
| E. IMPORTANT: Contractor X is not. | is required to | sign this document and | return _ | copies to the issuir | ng office. | | | |
| 14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 | | | | | | 0 000 00 | | |
| The purpose of this modifica | CION 1S t | Lo add increm | uenta | r runding in the amour | IC OI \$/ | 0,000.00 | | |
| to this task order. | | | | | | | | |
| This is a Time-and-Materials which the Contractor is not | | | | | | | | |
| The total obligated/funded corder is incrementally funde and Attachment B is hereby i TOCOR: Taylor Macy | d as deta ncorporat | ailed in Atta ced (1 page). | achme • | nt B Summary of Amount | s and C | eilings | | |
| Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print) | ne aocument refer | rencea in Item 9 A or 10A | | tofore changed, remains unchanged and in AME AND TITLE OF CONTRACTING OFFI | | | | |
| | | | | ael C. Fox | | , | | |
| 15B. CONTRACTOR/OFFEROR | | 15C. DATE SIGNED | 16B. UI | NITED STATES OF AMERICA | FL FCTRONIC S:GNATURE | 16C. DATE SIGNED 07/27/2018 | | |
| (Cignoture of person authorized to sign) | | | 9 | (Signature of Contracting Officer) | | 01/21/2010 | | |

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE OF 2

 EP-W-16-015/68HE0H18F1536/P00001
 2

NAME OF OFFEROR OR CONTRACTOR

WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.

| EM NO. | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|--------|---|----------|------|------------|--------|
| (A) | (B) | (C) | (D) | (E) | (F) |
| | LIST OF CHANGES: | | | | |
| | Reason for Modification: Funding Only Action | | | | |
| | Obligated Amount for this Modification: \$70,000.00 | | | | |
| | New Total Obligated Amount for this Award: | | | | |
| | \$85,000.00 | | | | |
| | Incremental Funded Amount changed: from | | | | |
| | \$15,000.00 to \$85,000.00 | | | | |
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| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Obligated Amount for this Modification: \$70,000.00 | | | | |
| | Incremental Funded Amount changed from \$15,000.00 | | | | |
| | to \$85,000.00 | | | | |
| | FOB changed from Destination to | | | | |
| | | | | | |
| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 18-19-C-58D5-000A45-2505-1858DC8081-001 | | | | |
| | Beginning FiscalYear 18 | | | | |
| | Ending Fiscal Year 19 | | | | |
| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1858DC8081-001 | | | | |
| | Amount: \$70,000.00 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
| | | | | | |
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| | Par marks | | | | |
| | Payment: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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Contract#: EP-W-16-015 Task Order#: 68HE0H18F1536

Project#: 2006

Modification: P00001

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | |
|----------------------------------|------------------------|-------------|-------------|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | |
| Base Period | \$15,000.00 | \$70,000.00 | \$85,000.00 | | | | |
| Total | \$15,000.00 | \$70,000.00 | \$85,000.00 | | | | |

| | Total Task Order Ceiling | | | | | | | |
|-------------|--------------------------|-------------|--------------|--|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | | |
| Base Period | \$138,481.00 | - | \$138,481.00 | | | | | |
| Total | \$138,481.00 | - | \$138,481.00 | | | | | |

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|---|---|--|--|--|---|--|---|--|--|--|--|--|
| 2. AMENDME | NT/MODIFICATION NO. | 3. EFFECTIVE | DATE | 4. RE | QUISITION/PURCHASE REQ. NO. | 5. PROJEC | T NO. (If applicable) | | | | | |
| P00002 | | See Bloo | ck 16C | PR- | DAR-19-00163 | 2006 | | | | | | |
| 6. ISSUED BY | CODE | HPOD | | 7. AE | MINISTERED BY (If other than Item 6) | CODE | | | | | | |
| William 1200 Pe Mail Co | ronmental Protection Jefferson Clinton Bu nnsylvania Avenue, N. de: 3803R ton DC 20460 | ilding | | | | _ | | | | | | |
| 8. NAME AND | ADDRESS OF CONTRACTOR (No., street, | county, State and | ZIP Code) (| (x) 9, | A. AMENDMENT OF SOLICITATION NO. | | · · | | | | | |
| WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 CODE 038086125 FACILITY CODE | | | | | 9B. DATED (SEE ITEM 11) x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-16-015 68HE0H18F1536 10B. DATED (SEE ITEM 13) | | | | | | | |
| CODE 03 | 8086125 | FACILITY COD | E | | 06/28/2018 | | | | | | | |
| | . es. e st 0. Schschiffs | 11. THIS ITE | M ONLY APPLIES TO AM | | MENTS OF SOLICITATIONS | | | | | | | |
| Items 8 and separate let RECEIVED OFFER. If I each letter of | 15, and returning copter or electronic communication which includes THE PLACE DESIGNATED FOR THE by virtue of this amendment you desire to copte electronic communication makes referent TING AND APPROPRIATION DATA (If requeedule | oies of the amenudes a reference RECEIPT OF O change an offer a nce to the solicita iired) | dment; (b) By acknowledge to the solicitation and am FFERS PRIOR TO THE Halready submitted , such cotion and this amendment, | ging rendmendmender HOUR change in and In | tion or as amended , by one of the following met beceipt of this amendment on each copy of the officient numbers. FAILURE OF YOUR ACKNOWLE AND DATE SPECIFIED MAY RESULT IN REJE or may be made by letter or electronic communicals received prior to the opening hour and date specified see: \$9 **RODIFIES THE CONTRACT/ORDER NO. AS DES | er submitted EDGEMENT CTION OF Y ation, provide ecified. | ; or (c) By TO BE OUR d | | | | | |
| CHECK ONE | B. THE ABOVE NUMBERED CONTRAC appropriation data, etc.) SET FORTH C. THIS SUPPLEMENTAL AGREEMENT | CT/ORDER IS MI I IN ITEM 14, PU IT IS ENTERED I | ODIFIED TO REFLECT TO PRSUANT TO THE AUTH | HE AI | GES SET FORTH IN ITEM 14 ARE MADE IN THE DMINISTRATIVE CHANGES (such as changes in YOF FAR 43.103(b). | | | | | | | |
| У | D. OTHER (Specify type of modification Mutual Agreement of | *** | ias | | | | | | | | | |
| E. IMPORTAN | | | o sign this document and | roturr | copies to the issuing | office | | | | | | |
| DUNS Nur The purp accordan and cost being in amount of as detain incorpor | mber: 038086125 pose of this modifications are with Attachment A proposal dated November \$96,694.93 is being filed in Attachment B frated (1 page). a Time-and-Materials are Contractor is not a | tion is , Revised mber 28, 0 from \$ g added Summary (| to incorporated Statement of 2018 (11 page 138,481.00 to this task of Amounts and ask order with | te tof Wes) or so so cond cond cond cond cond cond cond con | che revised statement of Jork (5 pages) and the revised statement of Jork (5 pages) and the revised price of the Pig. 19,812.00. Incremental der. This order is incremental and a statement of the Pig. 19,812.00 and a statement of the Contractor exceeds at the revised statement of the Contractor exceeds at | work in work in work is task funding mentall is he | technical corder is in the y funded creby | | | | | |
| | | e document refe | renced in Item 9 A or 10A | A, as h | eretofore changed, remains unchanged and in fu | ıll force and | effect. | | | | | |
| | ND TITLE OF SIGNER (Type or print) | | | 16A | NAME AND TITLE OF CONTRACTING OFFIC | | | | | | | |
| 15B. CONTRA | ACTOR/OFFEROR | | 15C. DATE SIGNED | 16B | UNITED STATES OF AMERICA | FCTRONIC | | | | | | |
| 0 | (Signature of person authorized to sign) | | | - | (Signature of Contracting Officer) | and the second second second | 12/07/2018 | | | | | |

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-W-16-015/68HE0H18F1536/P00002

PAGE 2 OF 3

NAME OF OFFEROR OR CONTRACTOR

| M NO. | SUPPLIES/SERVICES | QUANTITY | | UNIT PRICE | AMOUNT |
|-------|---|----------|-----|------------|--------|
| A) | (B) | (C) | (D) | (E) | (F) |
| | | | | | |
| | The total obligated/funded ceiling amount for | | | | |
| | this order is currently \$181,694.93. This order | | | | |
| | is incrementally funded as detailed in Attachment | | | | |
| | B Summary of Amounts and Ceilings and Attachment | | | | |
| | B is hereby incorporated (1 page). | | | | |
| | TOCOR: Taylor Macy | | | | |
| | LIST OF CHANGES: | | | | |
| | Reason for Modification: Supplemental Agreement | | | | |
| | for work within scope | | | | |
| | Total Amount for this Modification: \$81,331.00 | | | | |
| | New Total Amount for this Version: \$219,812.00 | | | | |
| | New Total Amount for this Award: \$219,812.00 | | | | |
| | Obligated Amount for this Modification: \$96,694.93 | | | | |
| | New Total Obligated Amount for this Award: | | | | |
| | \$181,694.93 | | | | |
| | Incremental Funded Amount changed: from | | | | |
| | \$85,000.00 to \$181,694.93 | | | | |
| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Total Amount changed | | | | |
| | from \$138,481.00 to \$219,812.00 | | | | |
| | Obligated Amount for this Modification: \$96,694.93 | | | | |
| | Incremental Funded Amount changed from \$85,000.00 | | | | |
| | to \$181,694.93 | | | | |
| | FOB changed from Destination to | | | | |
| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 19-20-C-58D5-000A45-2505-1958DC9010-001 | | | | |
| | Beginning FiscalYear 19 | | | | |
| | Ending Fiscal Year 20 | | | | |
| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1958DC9010-001 | | | | |
| | Amount: \$56,694.93 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
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| | NEW ACCOUNTING CODE ADDED: | | | | |
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NAME OF OFFEROR OR CONTRACTOR

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| (A) | (B) | (C) | (D) | (E) | (F) |
| | Account code: | 1 | | | |
| | 18-19-C-58D5-000A45-2505-1958DC9010-002 | | | | |
| | Beginning FiscalYear 18 | | | | |
| | Ending Fiscal Year 19 | | | | |
| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1958DC9010-002 | | | | |
| | Amount: \$40,000.00 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
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| | www2.epa.gov/financial/contracts | | | | |
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| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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ATTACHEMENT A

Statement of Work

(revised 12/7/2018)

Title: Non-routine Maintenance and Repairs of

CASTNET Equipment

Contractor: AMEC Foster Wheeler, Inc.

Contract #: EP-W-16-015

Task Order #: 2006

Period of Performance: 7/9/2018 - 7/8/2019

EPA Key Personnel

Task Order Project Officer (TOPO):

Taylor Macy Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460

phone: (202) 343-9183

email: macy.taylor@epa.gov

Alternate TOPO:

Greg Beachley Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460

phone: (202) 343-9621

email: beachley.gregory@epa.gov

Contracting Officer (CO):

Michael Fox Contracting Officer Administrative Contract Service Center 1200 Pennsylvania Ave N.W. Mail Code 3803R Washington DC 20460

phone: (202) 564-2550

email: fox.michael@epa.gov

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term environmental monitoring network that measures changes in ambient air quality and assesses atmospheric deposition over broad geographic regions of the U.S. (https://www.epa.gov/castnet). Operating since 1987, CASTNET has evolved into a robust regional monitoring program which currently consists of approximately 95 monitoring stations nationwide. The Environmental Protection Agency (EPA) coordinates the operation of the network in cooperation with numerous federal, tribal, state and local partners.

The primary monitoring objectives of CASTNET are to:

- Provide high quality data on atmospheric deposition, rural ground level ozone and other forms of atmospheric pollution;
- Support the primary and secondary ozone NAAQS and provide data on NAAQS compliance in rural areas;
- Monitor the status and trends in regional air quality and atmospheric deposition;
- Assess and report on geographic patterns and long-term, temporal trends in ambient air pollution and atmospheric deposition;
- Improve our understanding of PM and ozone formation;
- Validate and improve atmospheric models;
- Provide data for health-based research and epidemiology studies;
- Assess the effectiveness of EPA's emission reduction programs; and
- Support science and ecosystem studies.

CASTNET sites measure weekly average concentrations of sulfate (SO₄²-), nitrate (NO₃-), ammonium (NH₄+), sulfur dioxide (SO₂), nitric acid (HNO₃), chloride (Cl⁻) and the base cations (Na⁺, K⁺, Mg²⁺and Ca²⁺) using a 3-stage filter pack. In addition, each site may make ancillary measurements, including hourly ozone (O₃), hourly meteorology, ammonia (NH₃) gas using passive devices, and trace-level gases. Trace-level gas monitors include reactive oxidized nitrogen (NOy), nitric oxide (NO), sulfur dioxide (SO₂) and carbon monoxide (CO). CASTNET O₃, meteorological, and trace gas measurements follow the requirements in the Code of Federal Regulations (CFR) and EPA's Quality Assurance Handbook.

II. PURPOSE

The primary purpose of this task order is to perform non-routine maintenance on CASTNET equipment and infrastructure repairs due to unforeseen circumstances, including errors or faulty parts/equipment on the part of manufacturers, or the discontinuation of measurements at current monitoring sites. This work should be considered out of scope from the base operations task orders in place for Task Orders 2003 and 2004 (CASTNET Base Program and CASTNET Tribal

Base Program, respectively), which cover routine, expected maintenance. The TOPO may provide technical direction for performing specific tasks under this task order.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in Task 22 (Level of Effort) of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare a Proposal

The Contractor shall prepare a Task Order Proposal and Cost Estimate in accordance with the terms and conditions of contract clauses B.2 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract, using time and materials with a cost ceiling, and will submit it to EPA.

2. Perform Non-Routine Maintenance and Repairs

2.1 Repair of CASTNET shelters

The site shelter enclosures themselves are important to allow for proper operating conditions to be maintained to meet rigorous quality assurance standards for regulatory NAAQS measurements. Most of the shelters in the network have been in place for upwards of 10 years or more. They are subject to normal wear and tear and also exposed to harsh weather conditions that may cause significant damage over time. Cost analyses show that repair of these shelters is much more cost-effective than a replacement. The contractor will monitor shelters for repair needs and arrange and conduct the repairs when needed. The repairs will range from minor maintenance to major repairs such as roof or floor replacements. Repairs should be made in a way to minimize their impact on the sampling schedule.

2.1.1 Hurricane Repairs and Maintenance

- a. The coastal site (BFT142) located near Beaufort, NC, was significantly damaged when Hurricane Florence made landfall nearby. Wood will assess and make necessary infrastructure repairs to the shelter, filter pack flow tower, and digital rain gauge. This shall include securing the shelter and tower so there are no safety issues by pouring a new concrete pad(s) and re-anchoring the shelter and tower.
- b. Hurricane Michael made landfall near the coastal CASTNET site in Florida (SUM146). To access and make repairs to the infrastructure, equipment and power, maintenance shall include tree clearing and removal. When power is restored, equipment will be audited to determine if there was any damage due to the storm.

2.2 Disposition of meteorological sensors and equipment

Over time, CASTNET equipment becomes unusable due to malfunctions, normal wear from routine use, or obsolete technology. The contractor is tasked with collecting that

equipment and storing it until the point in which it is no longer of any potential use in the network. At that point, unusable equipment should be disposed of properly. The contractor shall oversee the development of a plan to dispose of unusable equipment. That plan should include an inventory of each piece of equipment with an EPA property decal prior to removal of the decal. Also, any hardware that may potentially contain any agency-sensitive information should be sanitized prior to its inclusion in the 'EPA-property disposition plan'. This is a continuation of work that began under Task Order 0006.

2.3 Nafion Dryer Installation

CASTNET ozone analyzers located in regions that experience humid weather tend to experience moisture issues causing slow responses during the QC checks and noisy 1-minute data. With approval from EPA, the contractor shall purchase and install up to 40 nafion dryer lines at select CASTNET sites. The nafion dryer shall be placed in-line with the sampling line to dry the air as it enters the temperature controlled shelter. When appropriate the contractor should schedule the installation during a routine calibration trip.

2.4 Re-wiring of Backplanes and Installation of New Modems

This task includes follow-on work that began under Task Order 1006 under Option Period 1. Wood shall update the communication equipment for the Campbell Scientific 3000 data loggers with the NL116 data logger add-on. This will ensure the data logger internet connection will be able to communicate with the operating system. The contractor shall also install new cellular modems at sites where the older modems no longer work with the updated software included on the data logger and that were affected by the VM Malware earlier in 2018. While installing the new modems, the backplanes will be rewired to make it easier for the site operators and the contractor to troubleshoot.

2.5 Teledyne API NOy Umbilical Connector Retrofit Kits

Teledyne API (TAPI) provided Wood with the retrofit repair kits for the umbilical connection on the NO_Y analyzers, along with a technical note for replacement of the umbilical and related conduit. Wood shall install each of the Teledyne retrofit repair kits at five CASTNET NO_Y trace-level gas sites to ensure compliance with electrical codes.

2.6 QAPP and SOPs for West Virginia NCore Site

Wood shall develop a EPA-454/B-18-006-compliant Quality Assurance Project Plan (QAPP) and multiple Standard Operating Procedures (SOPs) for the West Virginia NCore site at Charleston, WV. This work is a continuation of work that began under Task Order 1015, Option Period 1. Wood shall submit a QAPP to the West Virginia Department of Environmental Protection and EPA Region 3 after incorporating all of their comments and required documentation. Wood shall also budget for additional hours to troubleshoot issues with the trace gas equipment and data loggers, including setting up auto calibrations and assisting WV DEQ with routine data validation.

2.7 Additional Maintenance, Repairs and Equipment Purchases

Additional technical direction will be given as other non-routine maintenance and repairs arise on CASTNET equipment and infrastructure. This task includes, but is not limited to aging ozone analyzers, flow controllers and data loggers.

V. DELIVERABLES

1. Technical Proposal & Cost Estimate

The contractor shall deliver a Task Order Proposal and cost estimate in accordance with clause B.7 Task Order Ordering Procedures of the contract.

2. Monthly Progress Report

The contractor shall prepare and submit a monthly progress report by the 15th of each month summarizing the progress made, issues encountered or expected, work planned for the next reporting period and costs. These reports shall comply with contract clauses F.1 Monthly Progress Report and F.5 Reports of Work. Reports shall be delivered electronically.

Additional deliverables may be required as part of future technical direction.

VI. SCHEDULE

The task order proposal shall be delivered within 10 days of issuance of this task order.

Distribution of Deliverables:

| Addressee | Copies |
|--|--------|
| EPA Contracting Officer (Mike Fox) | 1 |
| EPA Task Order Project Officer (Taylor Macy) | 1 |
| EPA Alternate TOPO (Gregory Beachley) | 1 |

Contract#: EP-W-16-015 Task Order#: 68HE0H18F1536

Project#: 2006

Modification: P00002

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | |
|---|-------------|-------------|--------------|--|--|--|--|
| Period Previous Amount This Action Amount | | | | | | | |
| Base Period | \$85,000.00 | \$96,694.93 | \$181,694.93 | | | | |
| Total | \$85,000.00 | \$96,694.93 | \$181,694.93 | | | | |

| Total Task Order Ceiling | | | | | | | |
|---|--------------|-------------|--------------|--|--|--|--|
| Period Previous Amount This Action Amount | | | | | | | |
| Base Period | \$138,481.00 | \$81,331.00 | \$219,812.00 | | | | |
| Total | \$138,481.00 | \$81,331.00 | \$219,812.00 | | | | |

| AMENDMENT OF SOLICITATION/MODIFICA | ATION OF CO | NTRACT | | 1. CONTRACT ID CODE | PAGE | OF PAGES |
|--|--|--|--|--|---|-----------------------------|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE D | DATE | 4. RE | | 5. PROJECT | NO. (If applicable) |
| P00003 | See Bloc | k 16C | PR- | OAR-19-00361 | 2006 | |
| 6. ISSUED BY CODE | HPOD | | 7. A | DMINISTERED BY (If other than Item 6) | CODE | |
| HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R | uilding | | | | _ | |
| Washington DC 20460 | | | | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street WOOD ENVIRONMENT & INFRASTRUCTL Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | | NS, INC. | × 1 H | A. AMENDMENT OF SOLICITATION NO. B. DATED (SEE ITEM 11) OA. MODIFICATION OF CONTRACT/ORDER NOTED = WITH 16 - 015 58HE0H18F1536 OB. DATED (SEE ITEM 13) | 0. | |
| CODE 038086125 | FACILITY CODE | : | | 06/28/2018 | | |
| | 11 THIS ITEM | ONLY APPLIES TO A | | OMENTS OF SOLICITATIONS | | |
| separate letter or electronic communication which incl RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to each letter or electronic communication makes referer 12. ACCOUNTING AND APPROPRIATION DATA (If required see Schedule 13. THIS ITEM ONLY APPLIES TO M | udes a reference t RECEIPT OF OFI change an offer all nce to the solicitati uired) ODIFICATION OF | o the solicitation and an FERS PRIOR TO THE H ready submitted , such o on and this amendment Net | mendr HOUF chang t, and In | R AND DATE SPECIFIED MAY RESULT IN REJE to may be made by letter or electronic communic is received prior to the opening hour and date sp | LEDGEMENT 1 ECTION OF YO ation, provided pecified. 38,117.0 | TO BE DUR |
| B. THE ABOVE NUMBERED CONTRAC appropriation data, etc.) SET FORTH C. THIS SUPPLEMENTAL AGREEMEN | CT/ORDER IS MOI HIN ITEM 14, PUR TIS ENTERED IN | DIFIED TO REFLECT T RSUANT TO THE AUTH | THE A | DMINISTRATIVE CHANGES (such as changes Y OF FAR 43.103(b). | | |
| D. OTHER (Specify type of modification | and authority) | | | | | |
| X EPA-B-32-103 | | | | | | |
| E.IMPORTANT: Contractor Sis not 14.DESCRIPTION OF AMENDMENT/MODIFICATION of DUNS Number: 038086125 The purpose of this modificato this task order. | (Organized by UC | F section headings, incl | luding | | ole.) | 8,117.07 |
| All other terms and conditio TOCOR: Taylor Macy LIST OF CHANGES: Reason for Modification: Fun Obligated Amount for this Mo New Total Obligated Amount f | ding Only dificatio | Action n: \$38,117.0 | | .00 | | |
| Continued | | | | | | |
| Except as provided herein, all terms and conditions of the | e document refere | enced in Item 9 A or 10A | _ | | | |
| 15A. NAME AND TITLE OF SIGNER (Type or print) | | | 164 | A. NAME AND TITLE OF CONTRACTING OFFICE | CER (Type or p | orint) |
| | | | Jo | seph Alustiza-Derocco | | |
| 15B. CONTRACTOR/OFFEROR | 1 | 5C. DATE SIGNED | 16E | | LEGTRONIC SIGNATURE | 16C. DATE SIGNED 03/12/2019 |
| (Signature of person authorized to sign) | | | | (Signature of Contracting Officer) | - | |

 CONTINUATION SHEET
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 OF

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NAME OF OFFEROR OR CONTRACTOR

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| | Incremental Funded Amount changed: from | | | | |
| | \$181,694.93 to \$219,812.00 | | | | |
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| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Obligated Amount for this Modification: \$38,117.07 | | | | |
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| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 19-20-C-58D5-000A45-2505-1958DC9025-001 | | | | |
| | Beginning FiscalYear 19 | | | | |
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| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
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| | Cost Organization | | | | |
| | DCN-LineID 1958DC9025-001 | | | | |
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| | Quantity: 0 | | | | |
| | Amount: \$38,117.07 | | | | |
| | Percent: 17.34076 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
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| | Durham NC 27711 | | | | |
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| | Delivery Location Code: OAR/OAP | | | | |
| | OAR/OAP | | | | |
| | US Environmental Protection Agency | | | | |
| | 1200 Pennsylvania Avenue NW | | | | |
| | Mail Code: 62101J | | | | |
| | OAR/OAP | | | | |
| | Washington DC 20460 USA | | | | |
| | washington be 20400 OSA | | | | |
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| | US Environmental Protection Agency | | | | |
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NAME OF OFFEROR OR CONTRACTOR

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| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | | | | 1. CONTRACT ID CODE | PAC | GE OF PAGES |
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| 2. AMENDME | NT/MODIFICATION NO. | 3. EFFECTIVE | DATE 4 | 4. RI | EQUISITION/PURCHASE REQ. NO. | 5. PROJE | ⊥ |
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| 6. ISSUED BY | CODE | HPOD | | 7. A | DMINISTERED BY (If other than Item 6) | CODE | |
| William 1200 Pe Mail Co | ronmental Protection Jefferson Clinton Bu nnsylvania Avenue, N. de: 3803R ton DC 20460 | ilding | | | | _ | |
| 8. NAME AND | ADDRESS OF CONTRACTOR (No., street, | , county, State and | ZIP Code) | (x) | A. AMENDMENT OF SOLICITATION NO. | | · |
| Attn: JOSEF 751 Arbor W Ste 180 | /IRONMENT & INFRASTRUCTU PH FARRELL Vay \ 194221972 | IRE SOLUTI | ONS, INC. | × 1 | OB. DATED (SEE ITEM 11) OA. MODIFICATION OF CONTRACT/ORDER NO EP-W-16-015 68HE0H18F1536 OB. DATED (SEE ITEM 13) | D. | |
| CODE 03 | 8086125 | FACILITY COD | E | | 06/28/2018 | | |
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| separate let RECEIVED OFFER. If I each letter o | ter or electronic communication which incle AT THE PLACE DESIGNATED FOR THE by virtue of this amendment you desire to coor electronic communication makes referent ING AND APPROPRIATION DATA (If requeedule) | udes a reference RECEIPT OF OI change an offer a nce to the solicita uired) | to the solicitation and am FFERS PRIOR TO THE H Ilready submitted , such ci tion and this amendment, | nendi HOUI chang , and | receipt of this amendment on each copy of the off ment numbers. FAILURE OF YOUR ACKNOWLI R AND DATE SPECIFIED MAY RESULT IN REJE pe may be made by letter or electronic communication is received prior to the opening hour and date specified the contract of the opening hour and date specified the contract of the opening hour and date specified the contract of the opening hour and date specified the contract of the opening hour and date specified the contract of the opening hour and date specified the contract of the opening hour and date specified the contract of the opening hour and date specified the | EDGEMEN CTION OF ation, provid ecified. | T TO BE YOUR ded |
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| | D. OTHER (Specify type of modification | | | | | | |
| X | Mutual Agreement of | the Part | ies | | | | |
| E. IMPORTAN | T: Contractor X is not | is required to | o sign this document and | retur | n copies to the issuing | office. | |
| DUNS Nur The purp Accordar and cost being ir funded a hereby: This is which th Continue Except as pro 15A. NAME AN | mber: 038086125 pose of this modifications with Attachment A t proposal dated Marchacreased by \$24,291.00 as detailed in Attachment as detailed in Attachment (1 page) a Time-and-Materials he Contractor is not and conditions of the ND TITLE OF SIGNER (Type or print) | tion is to a Revised h 19, 200 of from \$2 ment B State (T&M) to authorize | to incorporated Statement of Statement of 19 (12 pages) 219,812.00 to summary of Amoreask order with ed to exceed. | ee f soun th T Mi | the revised statement of Work (5 pages) and the revised statement of Work (5 pages) and the revised price of this to the total price of this to the total price of this and Ceilings and Attact a total ceiling price of the Contractor exceeds at the contractor exceeds at the contractor contracting of the Contractin | work evised task comment chment \$244, its comment | technical order is rementally B is 103.00, own risk. |
| 8 | ACTOR/OFFEROR | | 15C. DATE SIGNED | | Whollews : | FCTRON S:GNATUR | |
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NAME OF OFFEROR OR CONTRACTOR

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| | The total obligated/funded ceiling amount for | | | | |
| | this order is currently \$219,812.00. This order | | | | |
| | is incrementally funded as detailed in Attachment | | | | |
| | B Summary of Amounts and Ceilings and Attachment | | | | |
| | | | | | |
| | B is hereby incorporated (1 page). | | | | |
| | TOCOR: Taylor Macy | | | | |
| | LIST OF CHANGES: | | | | |
| | Reason for Modification: Supplemental Agreement | | | | |
| | for work within scope | | | | |
| | Total Amount for this Modification: \$24,291.00 | | | | |
| | New Total Amount for this Version: \$244,103.00 | | | | |
| | New Total Amount for this Award: \$244,103.00 | | | | |
| | Buyer changed | | | | |
| | from Joseph Alustiza-Derocco | | | | |
| | | | | | |
| | to Michael C. Fox | | | | |
| | Contracting Officer changed | | | | |
| | from Joseph Alustiza-Derocco | | | | |
| | riom socoph mascrza bersees | | | | |
| | to Michael C. Fox | | | | |
| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Total Amount changed | | | | |
| | | | | | |
| | from \$219,812.00 to \$244,103.00 | | | | |
| | FOB changed from Destination to | | | | |
| | CHANGES FOR DELIVERY LOCATION: OAR/OAP | | | | |
| | Amount changed from \$219,812.00 to \$244,103.00 | | | | |
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| | Payment: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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Title: Non-routine Maintenance and Repairs of

CASTNET Equipment (2006)

 Contractor:
 Wood E&IS, Inc.

 Contract #:
 EP-W-16-015

 Task Order #:
 68HE0H18F1536

 Period of Performance:
 7/9/2018 – 7/8/2019

EPA Key Personnel

Task Order Project Officer (TOPO):

Taylor Macy Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9183

email: macy.taylor@epa.gov

Alternate TOPO:

Greg Beachley Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9621

email: beachley.gregory@epa.gov

Contracting Officer (CO):

email: fox.michael@epa.gov

Michael Fox
Contracting Officer
Administrative Contract Service Center
1200 Pennsylvania Ave N.W.
Mail Code 3803R
Washington DC 20460
phone: (202) 564-2550

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term environmental monitoring network that measures changes in ambient air quality and assesses atmospheric deposition over broad geographic regions of the U.S. (https://www.epa.gov/castnet). Operating since 1987, CASTNET has evolved into a robust regional monitoring program which currently consists of approximately 95 monitoring stations nationwide. The Environmental Protection Agency (EPA) coordinates the operation of the network in cooperation with numerous federal, tribal, state and local partners.

The primary monitoring objectives of CASTNET are to:

- Provide high quality data on atmospheric deposition, rural ground level ozone and other forms of atmospheric pollution;
- Support the primary and secondary ozone NAAQS and provide data on NAAQS compliance in rural areas;
- Monitor the status and trends in regional air quality and atmospheric deposition;
- Assess and report on geographic patterns and long-term, temporal trends in ambient air pollution and atmospheric deposition;
- Improve our understanding of PM and ozone formation;
- Validate and improve atmospheric models;
- Provide data for health-based research and epidemiology studies;
- Assess the effectiveness of EPA's emission reduction programs; and
- Support science and ecosystem studies.

CASTNET sites measure weekly average concentrations of sulfate (SO₄²-), nitrate (NO₃-), ammonium (NH₄+), sulfur dioxide (SO₂), nitric acid (HNO₃), chloride (Cl⁻) and the base cations (Na⁺, K⁺, Mg²⁺and Ca²⁺) using a 3-stage filter pack. In addition, each site may make ancillary measurements, including hourly ozone (O₃), hourly meteorology, ammonia (NH₃) gas using passive devices, and trace-level gases. Trace-level gas monitors include reactive oxidized nitrogen (NOy), nitric oxide (NO), sulfur dioxide (SO₂) and carbon monoxide (CO). CASTNET O₃, meteorological, and trace gas measurements follow the requirements in the Code of Federal Regulations (CFR) and EPA's Quality Assurance Handbook.

II. PURPOSE

The primary purpose of this task order is to perform non-routine maintenance on CASTNET equipment and infrastructure repairs due to unforeseen circumstances, including errors or faulty parts/equipment on the part of manufacturers, or the discontinuation of measurements at current monitoring sites. This work should be considered out of scope from the base operations task orders in place for Task Orders 2003 and 2004 (CASTNET Base Program and CASTNET Tribal

Base Program, respectively), which cover routine, expected maintenance. The TOPO may provide technical direction for performing specific tasks under this task order.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in Task 22 (Level of Effort) of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare a Task Order Technical Proposal & Cost Estimate

The Contractor shall prepare a Task Order Proposal and Cost Estimate in accordance with the terms and conditions of contract clauses B.1 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract, using time and materials with a cost ceiling, and will submit it to EPA.

The purpose of this modification is to add Task 2.8 Decommission the Howland Ameriflux, ME (HOW191) site and install an O₃ system at the Duke Forest, NC (DUK008) Flux Tower site.

2. Perform Non-Routine Maintenance and Repairs

2.1 Repair of CASTNET shelters

The site shelter enclosures themselves are important to allow for proper operating conditions to be maintained to meet rigorous quality assurance standards for regulatory NAAQS measurements. Most of the shelters in the network have been in place for upwards of 20 years or more. They are subject to normal wear and tear and also exposed to harsh weather conditions that may cause significant damage over time. Cost analyses show that repair of these shelters is much more cost-effective than a replacement. The contractor shall monitor shelters for repair needs and arrange and conduct the repairs when needed. The repairs may range from minor maintenance to major repairs such as roof or floor replacements. Repairs shall be made in a way to minimize their impact on the sampling schedule.

2.1.1 Hurricane Repairs and Maintenance

a. Hurricane damage to Beaufort, NC (BFT142)

The coastal site (BFT142) located near Beaufort, NC, was significantly damaged when Hurricane Florence made landfall nearby. Wood shall assess and make necessary infrastructure repairs to the shelter, filter pack flow tower, and digital rain gauge. This shall include securing the shelter and tower so there are no safety issues by pouring a new concrete pad(s) and re-anchoring the shelter and tower. After the repairs have been made, the contractor shall reinstall the equipment in the shelter and at the outside locations (e.g. the digital raingage). Equipment shall be audited and calibrated as needed.

b. Hurricane damage to Sumatra, FL (SUM156)

Hurricane Michael made landfall near the coastal CASTNET site in Florida (SUM146). The contractor shall assess and make repairs to the infrastructure, equipment and power. Maintenance may include tree clearing and removal to access the site. When power is restored, equipment shall be audited and calibrated as needed.

c. Infrastructure damage to Blackwater National Wildlife Refuge, MD (BWR139)

The BWR139 site is located in a tidal wetland area near the Maryland coast. The Blackwater National Wildlife Refuge is designated priority wetland. High humidity from the surrounding wetlands combined with high temperatures and extreme weather events have contributed to significant deterioration of the shelter. The contractor shall make infrastructure repairs to fix existing damage and prevent further deterioration.

2.2 Disposition of meteorological sensors and equipment

Over time, CASTNET equipment becomes unusable due to malfunctions, normal wear from routine use, or obsolete technology. The contractor is tasked with collecting that equipment and storing it until the point in which it is no longer of any potential use in the network. At that point, unusable equipment shall be disposed of properly. The contractor shall oversee the development of a plan to dispose of unusable equipment. That plan shall include an inventory of each piece of equipment with an EPA property decal prior to removal of the decal. Also, any hardware that may potentially contain any agency-sensitive information should be sanitized prior to its inclusion in the 'EPA-property disposition plan'. This is a continuation of work that began under Task Order 0006.

2.3 Nation Dryer Installation

CASTNET ozone analyzers located in regions that experience humid weather tend to experience moisture issues causing slow responses during the QC checks and noisy 1-minute data. With approval from EPA, the contractor shall purchase and install up to 40 Nafion dryer lines at select CASTNET sites. The Nafion dryer shall be placed in-line with the existing sampling line to dry the air as it enters the temperature-controlled shelter. When appropriate, the contractor shall schedule the installation during a routine calibration trip.

2.4 Upgrading Data Loggers and Site Communications Equipment

The contractor shall upgrade data logger and site communications-related equipment. This is a follow-on to work that began under Task Order 1006. The NL115 data logger add-on which provides Ethernet connectivity to the data logger, is no longer available from Campbell Scientific, Inc. The NL115 is required at all sites with a CR3000 data logger. Its replacement, the NL116, is not compatible with the current data logger operating system and program. The contractor shall switch from NL115 to NL116 units at all sites. The contractor shall purchase 60 additional NL116 units to retrofit all sites with the new units. Replacements shall be performed during normal calibration visits.

2.5 Re-wiring of Backplanes and Installation of New Modems

The original Sierra Wireless Airlink Raven cellular modems purchased when the network was upgraded with CR3000 data loggers are no longer available or supported. As the modems fail, the contractor shall replace the modems with newer cellular modems. In addition, support for the 3G cellular networks is ending for both AT&T and Verizon. The contractor shall identify and purchase modems that are compatible with the 4G/LTE networks. At the same time the modems are being replaced, the contractor shall rewire the new backplanes so the backplanes are standardized across the network.

2.6 Teledyne API NOy Umbilical Connector Retrofit Kits

Teledyne API (TAPI) provided Wood with the retrofit repair kits for the umbilical connection on the NO_Y analyzers, along with a technical note for replacement of the umbilical and related conduit. Wood shall install each of the Teledyne retrofit repair kits at five CASTNET NO_Y trace-level gas sites to ensure compliance with electrical codes.

2.7 QAPP and SOPs for West Virginia NCore Site

Wood shall develop a EPA-454/B-18-006-compliant Quality Assurance Project Plan (QAPP) and multiple Standard Operating Procedures (SOPs) for the West Virginia NCore site at Charleston, WV. This work is a continuation of work that began under Task Order 1015, Option Period 1. Wood shall submit a QAPP to the West Virginia Department of Environmental Protection and EPA Region 3 after incorporating all of their comments and required documentation. Wood shall also budget for additional hours to troubleshoot issues with the trace gas equipment and data loggers, including setting up auto calibrations and assisting WV DEQ with routine data validation.

2.7 Additional Maintenance, Repairs and Equipment Purchases

Additional technical direction will be given as other non-routine maintenance and repairs arise on CASTNET equipment and infrastructure. This task includes, but is not limited to aging ozone analyzers, flow controllers and data loggers.

2.8 Decommission the Howland Ameriflux Site, ME (HOW191)

The site at HOW191 has operated as a special study for 8-years. A useful dataset has been collected and the equipment can be utilized elsewhere. The contractor shall perform a final calibration on the ozone and filter pack during the regularly scheduled calibration trip in 2019. The contractor shall decommission the site by removing all CASTNET equipment and shipping it back to the contractor's facility. The contractor shall work with the operator and land owner to ensure the site is returned to the same condition as it was before CASTNET equipment was installed.

2.9 Install a CASTNET O₃ System at the Duke Forest, NC (DUK008) Flux Tower Site

The contractor shall install a CASTNET O₃ system, including a site analyzer and level 3 transfer standard at the Duke Forest, NC (DUK008) Flux Tower site. The O₃ inlet may be placed in the pothead with the filterpack at the top of the 30m flux tower. The contractor shall set up the system following the CASTNET protocols detailed in the QAPP v9.1; with the exception of the sample line running up the length of the walk-up tower. The

existing data logger shall be used for data polling and to initiate the nightly QC checks. The operation, data QA and reporting will be included as a unit CLIN under Task Order 68HE0H18F1533 (2003) Base Operations.

V. DELIVERABLES

1. Technical Proposal & Cost Estimate

The contractor shall deliver a Task Order Proposal and cost estimate in accordance with clause B.7 Task Order Ordering Procedures of the contract.

2. Monthly Progress Report

The contractor shall prepare and submit a monthly progress report by the 15th of each month summarizing the progress made, issues encountered or expected, work planned for the next reporting period and costs. These reports shall comply with contract clauses F.1 Monthly Progress Report and F.5 Reports of Work. Reports shall be delivered electronically.

Additional deliverables may be required as part of future technical direction.

VI. SCHEDULE

The task order proposal shall be delivered within 10 days of issuance of this task order.

Distribution of Deliverables:

| Addressee | Copies |
|--|--------|
| EPA Contracting Officer (Mike Fox) | 1 |
| EPA Project Officer (Melissa Puchalski) | 1 |
| EPA Task Order Project Officer (Taylor Macy) | 1 |
| EPA Alternate TOPO (Gregory Beachley) | 1 |

Contract#: EP-W-16-015 Task Order#: 68HE0H18F1536

Project#: 2006

Modification: P00004

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | |
|--|--------------|--------------|--------------|--|--|--|--|
| Period Previous Amount Previous Action New Amoun | | | | | | | |
| | (Mod P00003) | (Mod P00003) | | | | | |
| Base Period | \$181,694.93 | \$38,117.07 | \$219,812.00 | | | | |
| Total | \$181,694.93 | \$38,117.07 | \$219,812.00 | | | | |

| Total Task Order Ceiling | | | | | | |
|---|--------------|-------------|--------------|--|--|--|
| Period Previous Amount This Action New Amount | | | | | | |
| Base Period | \$219,812.00 | \$24,291.00 | \$244,103.00 | | | |
| Total | \$219,812.00 | \$24,291.00 | \$244,103.00 | | | |

| AMENDMENT OF SOLICITATION/MODIFICA | ATION OF CONTRACT | | 1. CONTRACT ID CODE | PAGE | OF PAGES |
|--|---|--|--|---|---------------------|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE DATE | 4. REC | UISITION/PURCHASE REQ. NO. | 5. PROJECT | NO. (If applicable) |
| P00005 | See Block 16C | | AR-19-00962 | 2006 | * ** |
| 6. ISSUED BY CODE | HOAD | 7. AD | MINISTERED BY (If other than Item 6) | CODE | |
| HQAD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R | Agency ilding | | | _ | |
| Washington DC 20460 | | | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street WOOD ENVIRONMENT & INFRASTRUCTU Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | 9B x 10 E1 | A. MODIFICATION OF CONTRACT/ORDE P-W-16-015 BHE 0H 18F 1536 B. DATED (SEE ITEM 13) | R NO. | | |
| CODE 038086125 | FACILITY CODE | | 6/28/2018 | | |
| CODE 038086125 | 11. THIS ITEM ONLY APPLIES | | - 100 | | |
| CHECK ONE A. THIS CHANGE ORDER IS ISSUED FORDER NO. IN ITEM 10A. | change an offer already submitted noe to the solicitation and this ameruired) ODIFICATION OF CONTRACTS/O | , such change ndment, and is Net Inc RDERS. IT M | may be made by letter or electronic comminenceived prior to the opening hour and date are as a comminence of the contract of t | unication, provided to specified. \$24,291.0 DESCRIBED IN IT | 0 0 TEM 14. |
| C. THIS SUPPLEMENTAL AGREEMEN | T IS ENTERED INTO PURSUANT | | MINISTRATIVE CHANGES (such as chang OF FAR 43.103(b). TY OF: | | , |
| D. OTHER (Specify type of modification X Mutual Agreement of | 1.5 | | | | |
| | NO. | | copies to the iss | | |
| E.IMPORTANT: Contractor ⊠is not 14. DESCRIPTION OF AMENDMENT/MODIFICATION of DUNS Number: 038086125 The purpose of this modifica This order is now fully fund and Attachment B is hereby i | (Organized by UCF section heading tion is to add in ed as detailed in | gs, including s crement Attach | oolicitation/contract subject matter where fe | unt of \$2 | |
| This is a Time-and-Materials which the Contractor is not TOCOR: Taylor Macy LIST OF CHANGES: Reason for Modification: Fun Continued Except as provided herein, all terms and conditions of the Total NAME AND TITLE OF SIGNER (Type or print) | authorized to exc ding Only Action | eed. Th | e Contractor exceeds retofore changed, remains unchanged and NAME AND TITLE OF CONTRACTING O | at its ow. | n risk. fect. |
| 15B. CONTRACTOR/OFFEROR | 15C. DATE SIGN | ED 16B. | UNITED STATES OF AMERICA | EL FOTRONIC | 16C. DATE SIGNED |
| | | -1/2 | Mori Sax | 5:GNATURE | 05/22/2019 |
| (Signature of person authorized to sign) | | | (Signature of Contracting Officer) | | |

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 OF

 EP-W-16-015/68HE0H18F1536/P00005
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NAME OF OFFEROR OR CONTRACTOR

| EM NO. (A) | SUPPLIES/SERVICES | QUANTITY (C) | UNIT (D) | UNIT PRICE (E) | AMOUNT (F) |
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| (A) | (B) | 0 0 | (D) | (上) | (F) |
| | Obligated Amount for this Modification: \$24,291.00 | | | | |
| | New Total Obligated Amount for this Award: | | | | |
| | \$244,103.00 | | | | |
| | Incremental Funded Amount changed: from | | | | |
| | \$219,812.00 to \$244,103.00 | | | | |
| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Obligated Amount for this Modification: \$24,291.00 | | | | |
| | Incremental Funded Amount changed from | | | | |
| | \$219,812.00 to \$244,103.00 | | | | |
| | NEW ACCOUNTING CODE ADDED. | | | | |
| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 19-20-C-58D3-000A45-2505-1958DC9051-001 | | | | |
| | Beginning FiscalYear 19 | | | | |
| | Ending Fiscal Year 20 | | | | |
| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D3 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1958DC9051-001 | | | | |
| | Amount: \$24,291.00 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
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Contract#: EP-W-16-015 Task Order#: 68HE0H18F1536

Project#: 2006

Modification: P00005

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | | | |
|----------------------------------|-----------------|------------------------|--------------|--|--|--|--|--|--|
| Period | Previous Amount | Previous Action | New Amount | | | | | | |
| Base Period | \$219,812.00 | \$24,291.00 | \$244,103.00 | | | | | | |
| Total | \$219,812.00 | \$24,291.00 | \$244,103.00 | | | | | | |

| Total Task Order Ceiling | | | | | | | | |
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| Period | Previous Amount | This Action | New Amount | | | | | |
| Base Period | \$244,103.00 | - | \$244,103.00 | | | | | |
| Total | \$244,103.00 | - | \$244,103.00 | | | | | |

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| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE | DATE | | 5. PROJECT NO. (If applicable) |
| P00006 | See Bloo | ck 16C | | 2006 |
| 6. ISSUED BY CODE | HQAD | | 7. ADMINISTERED BY (If other than Item 6) | CODE |
| HQAD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460 | uilding | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street | t county State and | ZIP Code) | 9A. AMENDMENT OF SOLICITATION NO. | |
| WOOD ENVIRONMENT & INFRASTRUCTU Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | | ONS, INC. | 9B. DATED (SEE ITEM 11) * 10A. MODIFICATION OF CONTRACT/ORDER EP-W-16-015 68HE0H18F1536 | ₹ NO. |
| CORE | TEACH ITY CODE | _ | 10B. DATED (SEE ITEM 13) | |
| CODE 038086125 | FACILITY CODI | | 06/28/2018 MENDMENTS OF SOLICITATIONS | |
| Items 8 and 15, and returning co separate letter or electronic communication which incl RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to each letter or electronic communication makes referent 12. ACCOUNTING AND APPROPRIATION DATA (# reg | ludes a reference RECEIPT OF OI change an offer a nce to the solicita | to the solicitation and an FFERS PRIOR TO THE H Ilready submitted, such o tion and this amendment | HOUR AND DATE SPECIFIED MAY RESULT IN R Thange may be made by letter or electronic commu , and is received prior to the opening hour and date | OWLEDGEMENT TO BE EJECTION OF YOUR unication, provided e specified. |
| See Schedule | uirea) | Net | Decrease: | -\$30,166.75 |
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| D. OTHER (Specify type of modification | • / | | | |
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| E. IMPORTANT: Contractor | 74477 17 77 77 70 70 70 70 70 70 70 70 70 70 70 | E) | return copies to the iss uding solicitation/contract subject matter where fe | 5 |
| The purpose of this modifica | tion is t | co de-obligat | e funding in the amount o | of \$30,166.75 from |
| this task order. | | | | |
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| LIST OF CHANGES: | 5.1 1 0 to | | | |
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| 9244,103.00 to 9213,936.25 CHANGES FOR LINE ITEM NUMBER | : 1 | | | |
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| Except as provided herein, all terms and conditions of the | ne document refe | renced in Item 9 A or 104 | . as heretofore changed, remains unchanged and | in full force and effect. |
| 15A. NAME AND TITLE OF SIGNER (<i>Type or print</i>) | | 3,13,10 | 16A. NAME AND TITLE OF CONTRACTING OF | |
| | | | Michael C. Fox | |
| 15B. CONTRACTOR/OFFEROR | | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | #LECTRONIC |
| (Cignature of parson authorized to gign) | | | (Signature of Contracting Officer) | 10/16/2019 |

 CONTINUATION SHEET
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 OF

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NAME OF OFFEROR OR CONTRACTOR

| ITEM NO. | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
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| (A) | (B) | | (D) | (E) | (F) |
| | Obligated Amount for this Modification: | | | | |
| | -\$30,166.75 | | | | |
| | Incremental Funded Amount changed from | | | | |
| | \$244,103.00 to \$213,936.25 | | | | |
| | CHANGES FOR ACCOUNTING CODE: | | | | |
| | 19-20-C-58D5-000A45-2505-1958DC9010-001 | | | | |
| | Amount changed from \$56,694.93 to \$26,528.18 | | | | |
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| | Payment: RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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| | SOLICITATION MATION CALL: | a. NAME Micha | el Fox | | | b. TELEPHONE 202–564 | | (No collect ca | ls) 8. OFFER ET | DUE DATE/LOCAL TIME |
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| William J 1200 Penr Mail Code | Tefferson Isylvania | rotection Clinton Bu Avenue, N. | ıilding | | SMALL BU HUBZONE BUSINESS SERVICE- VETERAN SMALL BU | E SMALL S DISABLED I-OWNED | (WOSE | N-OWNED SMALL B B) ELIGIBLE UNDER BLISINESS PROGR BB | THE WOMEN-OWI AM | NAICS:541620 SIZE STANDARD: \$15.0 |
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| 15. DELIVER TO | | cc | OAR/OAF |) | 16. ADMINISTE | ERED BY | | | | IPOD |
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| 19. ITEM NO. | | 20. SCHEDULE OF SUPPLIES | S/SERVICE | :S | | 21. QUANTITY | 22. UNIT | 23 UNIT P | | 24. AMOUNT |
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| | the Contractor is not authorized to exceed. The Contractor exceeds at its own risk. | | | | | | | | | |
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| | The total of | obligated/funded c | eilin | ng amount for | 5 | | | | | |
| | this order | is currently \$5,0 | 00.00 |). This order | is | | | | | |
| | incremental | lly funded as deta | iled | in Attachmen | nt B | | | | | |
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| | is hereby : | incorporated (1 pa | ige). | | | | | | | |
| | Contracting | g Officer's Repres | enta+ | cive (COR) fo | r | | | | | |
| | this task | | | , | _ | | | | | |
| | Gregory Bea | achley, (202) 343- | 9621, | | | | | | | |
| | Beachley.G | regory@epa.gov | | | | | | | | |
| | Alternate | SOD - | | | | | | | | |
| | | cok: chalski, (202) 343 | _0000 | | | | | | | |
| | | | - 9002 | -, | | | | | | |
| | Fuchaiski. | Melissa@epa.gov | | | | | | | | |
| | The service | es of this order a | re fo | or severable. | | | | | | |
| | TOCOR: Gree | g Beachley | | | | | | | | |
| | Period of I | Performance: 07/09 | /2018 | 3 to 07/08/20 | 19 | | | | | |
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NAME OF OFFEROR OR CONTRACTOR

| EM NO. | SUPPLIES/SERVICES (B) | QUANTITY (C) | UNIT (D) | UNIT PRICE (E) | AMOUNT (F) |
|--------|---|-----------------|-------------|-------------------|---------------|
| | Accounting Info: 18-19-C-58D5-000A45-2505-1858DC8047-001 BFY: 18 EFY: 19 Fund: C Budget Org: 58D5 Program (PRC): 000A45 Budget (BOC): 2505 DCN - Line ID: 1858DC8047-001 Funding Flag: Complete | | | | |
| | Funded: \$5,000.00 | | | | |
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ATTACHEMENT A

Statement of Work

Title: Procurement of Supplies and Consumables for

MARGA Operation at CASTNET Sites

Contract #: EP-W-16-015

Project #: 2007

Period of Performance: 7/9/2018 – 7/8/2019

EPA Key Personnel

Task Order Project Officer (TOPO):

Greg Beachley Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9621

email: beachley.gregory@epa.gov

Alternate Task Order Project Officer/Project Officer:

Melissa Puchalski Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9882

email: puchalski.melissa@epa.gov

Contracting Officer (CO):

Michael Fox Contracting Officer Administrative Contract Service Center 1200 Pennsylvania Ave N.W. Mail Code 3803R Washington DC 20460

phone: (202) 564-2550 email: fox.michael@epa.gov

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term environmental monitoring network that measures changes in ambient air quality and assesses atmospheric deposition over broad geographic regions of the U.S. (https://www.epa.gov/castnet). Operating since 1987, CASTNET has evolved into a robust regional monitoring program which currently consists of approximately 95 monitoring stations nationwide. The Environmental Protection Agency (EPA) coordinates the operation of the network in cooperation with numerous federal, tribal, state and local partners.

The primary monitoring objectives of CASTNET are to:

- Provide high quality data on atmospheric deposition, rural ground level ozone and other forms of atmospheric pollution;
- Support the primary and secondary ozone NAAQS and provide data on NAAQS compliance in rural areas;
- Monitor the status and trends in regional air quality and atmospheric deposition;
- Assess and report on geographic patterns and long-term, temporal trends in ambient air pollution and atmospheric deposition;
- Improve our understanding of PM and ozone formation;
- Validate and improve atmospheric models;
- Provide data for health-based research and epidemiology studies;
- Assess the effectiveness of EPA's emission reduction programs; and
- Support science and ecosystem studies.

CASTNET sites measure weekly average concentrations of sulfate (SO₄²⁻), nitrate (NO₃⁻), ammonium (NH₄⁺), sulfur dioxide (SO₂), nitric acid (HNO₃), chloride (Cl⁻) and the base cations (Na⁺, K⁺, Mg²⁺and Ca²⁺) using a 3-stage filter pack. In addition, each site may make ancillary measurements, including hourly ozone (O₃), hourly meteorology, ammonia (NH₃) gas using passive devices, and trace-level gases. Trace-level gas monitors include reactive oxidized nitrogen (NOy), nitric oxide (NO), sulfur dioxide (SO₂) and carbon monoxide (CO). CASTNET O₃, meteorological, and trace gas measurements follow the requirements in the Code of Federal Regulations (CFR) and EPA's Quality Assurance Handbook.

II. PURPOSE

The primary purpose of this task is for the procurement of supplies and consumables that will be used for the operation and maintenance of the Monitor for Aerosols and Gases in Ambient Air (MARGA) systems operated in support of CASTNET. The key activities under this task will be to ship the existing MARGA units from the current operating locations to the Principle Investigators that will operate the MARGA units in FY2018. This task order is a continuation of

work that began under EP-W-09-028 Task Order 0435 and a follow-on to task order 0007 under this contract.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in Task 22 (Level of Effort) of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare a Task Order Technical Proposal and Cost Estimate

The Contractor shall prepare a Task Order Proposal in accordance with the terms and conditions of contract clauses B.2 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract, using time and materials with a cost ceiling, and will submit it to EPA.

2. Shipment of Instruments

The contractor shall assist TOPO in shipping all designated MARGA units including freight costs and necessary materials.

3. Field Set-up and Operations

The contractor shall procure and deliver supplies and consumables, as directed by the TOPO to support the setup, operation, and maintenance of the direct deposition instrument at a yet-to-be determined research site.

During the period of performance, on an approximately a monthly basis, the TOPO will provide AMEC Foster Wheeler with an itemized list of parts, supplies and consumables needed for the operation and calibration of the MARGAs. Potential vendors will be identified whenever possible. AMEC will deliver all parts, materials and supplies as directed by the TOPO.

Table 1 summarizes the types of materials and supplies required for Task Order 2007 and the estimated total cost.

Table 1 Materials and Supplies

| Items | Total Cost* |
|-----------------------------|-------------|
| MARGA replacement parts | \$5,000 |
| Shipping (\$1,000 per unit) | \$1,000 |

NOTE: *- Not to be exceeded

V. DELIVERABLES

1. Task Order Technical Proposal and Cost Estimate

The contractor shall deliver a Task Order Proposal and Cost Estimate in accordance with clause B.7 Task Order Ordering Procedures of the contract and section IV.1 of this SOW

2. Monthly Progress Report

The contractor shall prepare and submit a monthly progress report by the 15th of each month summarizing the progress made, issues encountered or expected, work planned for the next reporting period and costs. These reports shall comply with contract clauses F.1 Monthly Progress Report and F.5 Reports of Work. Reports shall be delivered electronically.

Additional deliverables may be required as part of future technical direction.

VI. SCHEDULE

The task order proposal shall be delivered within 10 days of issuance of this task order.

Distribution of Deliverables:

| Addressee | Copies |
|---|--------|
| EPA Contracting Officer (Mike Fox) | 1 |
| EPA TOPO (Greg Beachley) | 1 |
| EPA Alternate TOPO/PO (Melissa Puchalski) | 1 |

Revisions to SOW:

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | | |
|----------------------------------|------------------------|-------------|------------|--|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | | |
| Base Period | 1 | \$5,000.00 | \$5,000.00 | | | | | |
| Total | - | \$5,000.00 | \$5,000.00 | | | | | |

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| Base Period | ± | \$11,184.00 | \$11,184.00 | | | | | |
| Total | - | \$11,184.00 | \$11,184.00 | | | | | |

| AMENDMENT OF SOLICITATION/MODIFIC | ATION OF CO | NTRACT | | 1. CONTRACT ID CODE | PAGE | OF PAGES |
|--|--|---|---|--|--|-----------------------------|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE D | DATE | 4. R | | 5. PROJECT | NO. (If applicable) |
| P00001 | See Bloc | k 16C | PR- | OAR-19-01254 | 2007 | |
| 6. ISSUED BY CODE | HPOD | | 7. A | DMINISTERED BY (If other than Item 6) | CODE | |
| HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R | uilding | | | | _ | |
| Washington DC 20460 | 2 100 | 100 min - 20 Min | | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street WOOD ENVIRONMENT & INFRASTRUCTU Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | | ons, Inc. | × | DA. AMENDMENT OF SOLICITATION NO. DB. DATED (SEE ITEM 11) DB. DATED (SEE ITEM 15) DB. DATED (SEE ITEM 15) DB. DATED (SEE ITEM 13) | 0. | |
| CODE 038086125 | FACILITY CODE | - | | 06/28/2018 | | |
| any and, and any any acceptance of | 11, THIS ITEM | M ONLY APPLIES TO AI | MEN | DMENTS OF SOLICITATIONS | | |
| Offers must acknowledge receipt of this amendment partitems 8 and 15, and returning conseparate letter or electronic communication which incl RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to each letter or electronic communication makes referent 12. ACCOUNTING AND APPROPRIATION DATA (if reg. | pies of the amendi ludes a reference t RECEIPT OF OF change an offer all nce to the solicitati | ment; (b) By acknowled to the solicitation and an FERS PRIOR TO THE I ready submitted, such o on and this amendment | lging mend HOU chang t, and | receipt of this amendment on each copy of the of ment numbers. FAILURE OF YOUR ACKNOWL R AND DATE SPECIFIED MAY RESULT IN REJI ge may be made by letter or electronic communic is received prior to the opening hour and date sp | fer submitted; LEDGEMENT TECTION OF YOutline, provided becified. | or (c) By TO BE DUR |
| See Schedule | шгөа) | Net | Ir | crease: \$3 | 373.33 | |
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| D. OTHER (Specify type of modification | * | | | | | |
| X EPA-B-32-103 - LIMIT | ATION OF | GOVERNMENT'S | SC | DBLIGATION | | |
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| LIST OF CHANGES: | | 7 -1 ' " " | | | | |
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| Incremental Funded Amount ch \$5,000.00 to \$5,373.33 | anged: | from | | | | |
| Continued Except as provided herein, all terms and conditions of the | ne document refere | enced in Item 9 A or 10A | A, as | heretofore changed, remains unchanged and in l | full force and e | ffect. |
| 15A. NAME AND TITLE OF SIGNER (Type or print) | | | 16 | A. NAME AND TITLE OF CONTRACTING OFFICE | | |
| 15B. CONTRACTOR/OFFEROR | 1 | 5C. DATE SIGNED | 1 | | L FOTRONIC S:GNATURE | 16C. DATE SIGNED 08/07/2019 |
| (Signature of person authorized to sign) | | | - | (Signature of Contracting Officer) | | 00,01,2010 |

 CONTINUATION SHEET
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 OF

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NAME OF OFFEROR OR CONTRACTOR

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| | CHANGES FOR LINE ITEM NUMBER: 1 | † | | | |
| | Obligated Amount for this Modification: \$373.33 | | | | |
| | Incremental Funded Amount changed from \$5,000.00 | | | | |
| | to \$5,373.33 | | | | |
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| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 19-20-B-58D1-000A45-2505-1958DC9079-001 | | | | |
| | Beginning FiscalYear 19 | | | | |
| | Ending Fiscal Year 20 | | | | |
| | Fund (Appropriation) B | | | | |
| | Budget Organization 58D1 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1958DC9079-001 | | | | |
| | Amount: \$373.33 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
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| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
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ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | | |
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| Period | Previous Amount | This Action | Amount | | | | | |
| Base Period | \$5,000.00 | \$373.33 | \$5,373.33 | | | | | |
| Total | \$5,000.00 | \$373.33 | \$5,373.33 | | | | | |

| Total Task Order Ceiling | | | | | | | | | |
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| | | arac, (202)343-918 | 0. | | | | | | | |
| | | othy@epa.gov. | • | | | | | | | |
| | | | | | | | | | | |
| | Alternate | COR: | | | | | | | | |
| | Melissa Puo | chalski, (202) 343 | -9882, | | | | | | | |
| | Puchalski. | Melissa@epa.gov | | | | | | | | |
| | The service | es of this order a | re for | severable. | | | | | | |
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| | | Performance: 07/09 | /2018 | to 07/08/20 | 19 | | | | | |
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| 32b. SIGNATU | RE OF AUTHORIZED | GOVERNMENT REPRESENTATIV | | 32c. DATE | | | | | ORIZED G | OVERNMENT REPRESENTATIVE |
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| 32e. MAILING A | ADDRESS OF AUTHO | RIZED GOVERNMENT REPRESEN | NTATIVE | | 32f. TELE | 32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE | | | | NMENT REPRESENTATIVE |
| | | | | | 32g. E-MA | AIL OF AUTH | IORIZI | ED GOVERNM | ENT REPRE | ESENTATIVE |
| 33. SHIP NUM | BER | 34. VOUCHER NUMBER | 35. AMOUN | NT VERIFIED | 36. PAYM | IENT | | | | 37. CHECK NUMBER |
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| 41a. I CERTIF | Y THIS ACCOUNT IS C | CORRECT AND PROPER FOR PAY | MENT . | | 42a. RI | ECEIVED BY | ' (Prim | ") | | |
| 41b. SIGNATU | RE AND TITLE OF CE | RTIFYING OFFICER | 410 | c. DATE | 42b. R | 42b. RECEIVED AT (Location) | | | | |
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| CONTINUATION SHEET | EP-W-16-015/68HE0H18F1539 | 3 | 3 |

NAME OF OFFEROR OR CONTRACTOR

| EM NO. (A) | SUPPLIES/SERVICES (B) | QUANTITY (C) | UNIT (D) | UNIT PRICE (E) | AMOUNT (F) |
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| | 18-19-C-58D5-000A45-2505-1858DC8035-001 BFY: 18 | | | | |
| | EFY: 19 Fund: C Budget Org: 58D5 Program (PRC): | | | | |
| | 000A45 Budget (BOC): 2505 DCN - Line ID: | | | | |
| | 1858DC8035-001 Funding Flag: Complete | | | | |
| | Funded: \$5,000.00 | | | | |
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ATTACHEMENT A

Statement of Work

Title: CASTNET Technical Systems Audit

Contract #: EP-W-16-015

Project #: 2009

Period of Performance: 07/09/2018-07/08/2019

EPA Key Personnel

Task Order Project Officer (TOPO):

Timothy Sharac

Clean Air Markets Division (OAP/OAR/CAMD)

1200 Pennsylvania Ave. NW

Mail Code 6204M

Washington, DC 20460

phone: (202) 343-9180

email: sharac.timothy@epa.gov

Alternate TOPO:

Melissa Puchalski

Clean Air Markets Division (OAP/OAR/CAMD)

1200 Pennsylvania Ave. NW

Mail Code 6204M

Washington, DC 20460

phone: (202) 343-9882

email: puchalski.melissa@epa.gov

Contracting Officer (CO):

Mike Fox

Contracting Officer

Administrative Contract Service Center

1200 Pennsylvania Ave N.W.

Mail Code 3803R

Washington DC 20460

phone: (202) 564-2550

email: fox.michael@epa.gov

Contract Level Project Officer:

Melissa Puchalski

Clean Air Markets Division (OAP/OAR/CAMD)

1200 Pennsylvania Ave. NW

Mail Code 6204M

Washington, DC 20460

phone: (202) 343-9882

email: puchalski.melissa@epa.gov

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term monitoring network designed to measure acidic pollutants and ambient ozone concentrations in rural areas. CASTNET is managed collaboratively by the Environmental Protection Agency – Clean Air Markets Division (EPA), the National Park Service – Air Resources Division (NPS), and the Bureau of Land Management – Wyoming State Office (BLM-WSO). In addition to EPA, NPS, and BLM-WSO, numerous other participants including tribes, other federal agencies, States, private land owners, and universities provide network support. The EPA contractor, AMEC Foster Wheeler (AMEC), operates the EPA-sponsored sites while the NPS and BLM-WSO contractor, Air Resource Specialists, Inc. (ARS), operates the remaining sites.

II. PURPOSE

CASTNET O3 data are used to calculate design values for all sites where data completeness requirements are met. The CASTNET program follows QA/QC procedures and schedules to meet the regulatory requirements detailed in OAQPS' Quality Assurance Handbook for Air Pollution Measurement Systems. Volume II Ambient Air Quality Monitoring Program EPA-454/B-17-001 January, 2017. Appendix D. Revision No. 0. https://www3.epa.gov/ttn/amtic/files/ambient/pm25/qa/Final%20Handbook%20Document%201_17.pdf. The required QA/QC protocols include daily zero/span/precision checks, quarterly data submittals to EPA's Air Quality System (AQS) database, annual performance evaluations of the ozone analyzers by an independent auditor, and a 3-year facility technical systems audit (TSA). The purpose of this task is to fulfill the requirement for the TSA at the AMEC-FW facility. An independent auditor will review AMEC-FW's procedures on all aspects of the ozone monitoring program, including data handling, quality assurance procedures and documentations, calibrations and field operations.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in Task 22 (Level of Effort) of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare Work Plan

The Contractor shall prepare a Task Order Proposal in accordance with the terms and conditions of contract clauses B.2 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract.

2. Technical Systems Audit

The contractor shall prepare for the Technical Systems Audit (TSA) by providing the independent auditor with requested QA documents, SOPs, reports, etc. The independent auditor will prepare three questionnaires (one for the field audit, data management and field laboratory). AMEC-FW should review these questionnaires prior to the TSA and provide any feedback to the auditor.

The field audit will be performed at a CASTNET site selected by AMEC-FW and the independent auditor. AMEC-FW shall coordinate with the site operators at the selected site prior to the independent auditor's visit.

The contractor shall answer all questions on the three questionnaires and provide any requested information to the auditor during the site visits (at the monitoring site and the AMEC-FW facility).

The independent auditor shall perform the Technical Systems Audit as directed in the QA Handbook Volume II, Section 15.3 (dated 1/2017).

https://www3.epa.gov/ttn/amtic/files/ambient/pm25/qa/Final%20Handbook%20Document%201_17.pdf

3. Reporting

The independent auditor will conduct a brief closeout with AMEC-FW while at the facility. After the TSA is complete, the independent auditor will provide AMEC-FW with a draft report containing the results from the questionnaires. AMEC-FW will provide feedback and provide clarification for any finding reported in the draft report. AMEC-FW will provide a copy of the final report to EPA.

V. DELIVERABLES

1. Work Plan

As described in Task 1.

2. Monthly Progress Report

The contractor shall prepare a monthly progress report by the 15th of each month summarizing the technical and financial status of the task order.

3. Final TSA Report

The contractor shall submit the final TSA report from the independent auditor to EPA by 30 days after the end of the task order period.

VI. SCHEDULE

The work plan shall be delivered within 15 days of issuance of this task order.

Distribution of Deliverables:

| Addressee | Copies |
|------------------------------------|--------|
| EPA Contracting Officer (Mike Fox) | 1 |
| EPA TOPO (Timothy Sharac) | 1 |
| EPA PO (Melissa Puchalski) | 1 |

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | | | | |
|----------------------------------|------------------------|-------------|------------|--|--|--|--|--|
| Period | Previous Amount | This Action | Amount | | | | | |
| Base Period | 1 | \$5,000.00 | \$5,000.00 | | | | | |
| Total | - | \$5,000.00 | \$5,000.00 | | | | | |

| Total Task Order Ceiling | | | | | | |
|--------------------------|-----------------|-------------|-------------|--|--|--|
| Period | Previous Amount | This Action | Amount | | | |
| Base Period | - | \$52,527.00 | \$52,527.00 | | | |
| Total | - | \$52,527.00 | \$52,527.00 | | | |

| AMENDMENT OF SOLICITATION/MOI | DIFICATION OF C | ONTRACT | 1. CONTRACT ID CODE | PAGE OF PAGES |
|---|--|---|--|--|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE | DATE | L 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) |
| P00001 | See Blo | ck 16C | PR-OAR-18-01164 | 2009 |
| 6. ISSUED BY | CODE HPOD | | 7. ADMINISTERED BY (If other than Item 6) | CODE |
| HPOD US Environmental Protect William Jefferson Clinto 1200 Pennsylvania Avenue Mail Code: 3803R Washington DC 20460 | n Building | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No. | o. street county State and | I ZIP Code) | (A) 9A. AMENDMENT OF SOLICITATION NO. | |
| WOOD ENVIRONMENT & INFRASTR Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | | ONS, INC. | 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDE EP-W-16-015 68HE0H18F1539 10B. DATED (SEE ITEM 13) | ER NO. |
| CODE 038086125 | FACILITY COL | ne | | |
| 038086125 | | | 06/28/2018 IENDMENTS OF SOLICITATIONS | |
| THE PLACE DESIGNATED FOR THE RECEIF | ference to the solicitation TOF OFFERS PRIOR an offer already submit nt, and is received prior | on and amendment numbe TO THE HOUR AND DAT tted , such change may be to the opening hour and d | | T TO BE RECEIVED AT F YOUR OFFER. If by am or letter makes |
| See Schedule | (ii requirea) | Net | Increase: | \$15,000.00 |
| | NTRACT/ORDER IS M FORTH IN ITEM 14, PI | ODIFIED TO REFLECT TO URSUANT TO THE AUTH | CHANGES SET FORTH IN ITEM 14 ARE MADE HE ADMINISTRATIVE CHANGES (such as change) ORITY OF FAR 43.103(b). | |
| D. OTHER (Specify type of modil | fination and outbority) | | | |
| X FAR 52.232 - Lim | • | lunde | | |
| | <u></u> | | return copies to the is: | aying office |
| 14. DESCRIPTION OF AMENDMENT/MODIFICADUNS Number: 038086125 The purpose of this modifito this task order. | ATION (Organized by U | ICF section headings, inclu | uding solicitation/contract subject matter where fe | easible.) |
| This is a Time-and-Materi which the Contractor is r | | | (E) =/ | |
| The total obligated/funded order is incrementally funded and Attachment B is herektocomes. TocoR: Greg Beachley Continued Except as provided herein, all terms and conditions. | unded as det by incorpora | ailed in Atta ted (1 page). | chment B Summary of Amou | nts and Ceilings |
| 15A. NAME AND TITLE OF SIGNER (Type or pri | | | 16A. NAME AND TITLE OF CONTRACTING O | |
| 15B. CONTRACTOR/OFFEROR | | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA | FL FCTRONIC S:GNATURE 07/27/2018 |

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NAME OF OFFEROR OR CONTRACTOR

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| (A) | (B) | (C) | (D) | (E) | (F) |
| | LIST OF CHANGES: | | | | |
| | Reason for Modification: Funding Only Action | | | | |
| | Obligated Amount for this Modification: \$15,000.00 | | | | |
| | New Total Obligated Amount for this Award: | | | | |
| | \$20,000.00 | | | | |
| | Incremental Funded Amount changed: from | | | | |
| | \$5,000.00 to \$20,000.00 | | | | |
| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
| | Obligated Amount for this Modification: \$15,000.00 | | | | |
| | Incremental Funded Amount changed from \$5,000.00 | | | | |
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| | NEW ACCOUNTING CODE ADDED: | | | | |
| | Account code: | | | | |
| | 18-19-C-58D5-000A45-2505-1858DC8082-001 | | | | |
| | Beginning FiscalYear 18 | | | | |
| | Ending Fiscal Year 19 | | | | |
| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1858DC8082-001 | | | | |
| | Amount: \$15,000.00 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
| | Durham NC 27711 | | | | |
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| | Payment: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | | | |
| | 109 TW Alexander Drive | | | | |
| | www2.epa.gov/financial/contracts | | | | |
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| | Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
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Contract#: EP-W-16-015 Task Order#: 68HE0H18F1539

Project#: 2009

Modification: P00001

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

| Total Funding/Obligation Amounts | | | | | |
|----------------------------------|------------------------|-------------|-------------|--|--|
| Period | Previous Amount | This Action | Amount | | |
| Base Period | \$5,000.00 | \$15,000.00 | \$20,000.00 | | |
| Total | \$5,000.00 | \$15,000.00 | \$20,000.00 | | |

| Total Task Order Ceiling | | | | | | |
|------------------------------------|-------------|---|-------------|--|--|--|
| Period Previous Amount This Action | | | | | | |
| Base Period | \$52,527.00 | - | \$52,527.00 | | | |
| Total | \$52,527.00 | - | \$52,527.00 | | | |

| AMENDMENT OF SOLICITATION/MODIFICA | NTRACT | 1. CONTRAC | T ID CODE | PAGE | OF PAGES | |
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| P00002 | See Bloc | k 160 P | R-OAR-19-00 | 0306 | 2009 | |
| 6. ISSUED BY CODE | HPOD | | , ADMINISTERED B | Y (If other than Item 6) | CODE | |
| HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460 | ilding | | | | | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., atreet | county. State and 2 | IP Code) | . ISA. AMENDMENT | OF SOLICITATION NO. | | |
| WOOD ENVIRONMENT & INFRASTRUCTU Attn: JOSEPH FARRELL 751 Arbor Way Ste 180 Blue Bell PA 194221972 | | <u> </u> | 9B. DATED (SEE | ON OF CONTRACT/ORDER | NO. | |
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| | 11. THIS ITE | M ONLY APPLIES TO AM | ENDMENTS OF SOL | ICITATIONS | | |
| separate letter or electronic communication which inco RECEIVED AT THE PLACE DESIGNATED FOR THE OFFER. If by virtue of this amendment you desire to each letter or electronic communication makes referent 12. ACCOUNTING AND APPROPRIATION DATA (If required some some some some some some some some | prior to the hour an ples of the amend (udes a reference RECEIPT OF Of change an offer a nce to the solicital uired) | nd date specified in the so Iment; (b) By acknowledg to the solicitation and am FERS PRIOR TO THE H Iready submitted , such of tion and this amendment, Net | licitation or as amending receipt of this amendment numbers. It OUR AND DATE SPENANGE may be made to and is received prior Increase: | ded , by one of the following mendment on each copy of the of FAILURE OF YOUR ACKNOW ECIFIED MAY RESULT IN REcopy tetter or electronic community to the opening hour and date : | nethods: (a) By confer submitted; VLEDGEMENT 1 UECTION OF YO ication, provided specified. | or (c) By TO BE DUR I |
| 13. THIS ITEM ONLY APPLIES TO M | ODIFICATION OF | CONTRACTS/ORDERS. | IT MODIFIES THE C | ONTRACT/ORDER NO. AS D | ESCRIBED IN 11 | ÆM 14. |
| A. THIS CHANGE ORDER IS ISSUED I ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRAC appropriation data, etc.) SET FORTS C. THIS SUPPLEMENTAL AGREEMEN | CT/ORDER IS MO I IN ITEM 14, PU T IS ENTERED II | ODIFIED TO REFLECT TH RSUANT TO THE AUTHO | HE ADMINISTRATIVE DRITY OF FAR 43,10 | | | |
| D. OTHER (Specify type of modification | | | | | | |
| X FAR 52.232 - Limitat | 11 | | | copies to the issui | ing office | |
| E.IMPORTANT: Contractor Sis not 14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 The purpose of this modificat to this task order. | (Organized by UK | to add increm | ding solicitation/cont ental fund | ract subject matter where leas | nt of \$3 | |
| This is a Time-and-Materials which the Contractor is not | (T&M) ta | ask order wit ed to exceed. | h a total o | ceiling price o actor exceeds a | f \$52,52 t its ow | 7.00, n risk. |
| The total obligated/funded order is fully funded as det Attachment B is hereby incor TOCOR: Greg Beachley Invoice | ailed in | Attachment B (1 page). | Summary o | f Amounts and C | eilings | and |
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| Continued Except as provided herein, all lerms and conditions of the | he document refe | rescent in Hem 9 A or 10A | as heretofore chang | ed, remains unchanged and is | n full force and e | ffect. |
| 15A, NAME AND TITLE OF SIGNER (Type or print) | ne document rele | TENED III III O A GI TOA | 16A NAME AND T | ITLE OF CONTRACTING OFF | FICER (Type or) | orint) |
| | | 450 DATE SIGNED | 16B. UNITED STAT | | <u></u> | 16C. DATE SIGNED |
| 15B. CONTRACTOR/OFFEROR | | 15C, DATE SIGNED | Jan G | Krae | ELECTRONIC SIGNATURE | 02/27/2019 |
| (Signature of person authorized to sign) | | <u></u> | (Sig | nature of Contracting Officer) | | 014 20 (DEV. 11/2018) |

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| A) | (B) | (C) | (D) | (E) | (F) |
| | LIST OF CHANGES: | | | , | |
| | Reason for Modification: Funding Only Action | | | | |
| | Obligated Amount for this Modification: \$32,527.00 | | | | |
| | New Total Obligated Amount for this Award: | | | | |
| | \$52,527.00 | | | | |
| | Incremental Funded Amount changed: from | | | | |
| | \$20,000.00 to \$52,527.00 | | | | |
| | Invoice Approving Official changed to : timothy | | | | |
| | sharac | | | 1 | |
| | Alternate Invoice Approving Official changed to | | | | |
| | : melissa puchalski | | | | |
| | CHANGES FOR LINE ITEM NUMBER: 1 | | | | |
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| | Beginning FiscalYear 19 | | | | |
| | Ending Fiscal Year 20 | | | | |
| | Fund (Appropriation) C | | | | |
| | Budget Organization 58D5 | | | | |
| | Program (PRC) 000A45 | | | | |
| | Budget (BOC) 2505 | | | | |
| | Job # (Site/Project) | | | | |
| | Cost Organization | | | | |
| | DCN-LineID 1958DC9017-001 | | | | |
| | Quantity: 0 | | | | |
| | Amount: \$32,527.00 | | | | |
| | Percent: 61.92434 | | | | |
| | Subject To Funding: N | | | | |
| | Payment Address: | | | | |
| | RTP Finance Center | | | | |
| | US Environmental Protection Agency | | | | |
| | RTP-Finance Center (AA216-01) | | Ιİ | | |
| | 109 TW Alexander Drive | | | | |
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| | OAR/OAP | | | | |
| | US Environmental Protection Agency | | | | |
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PAGE 3

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NAME OF OFFEROR OR CONTRACTOR

| Psyment: NTP Finance Center US Environmental Protection Agency RTP-Finance Center (AAZ16-01) 109 TW Alexander Drive WW-2.epa.gov/financial/contracts Durham NC 27711 Period of Porformance: 07/09/2019 to 07/08/2019 | EM NO. (A) | SUPPLIES/SERVICES (B) | QUANTITY (C) | UNIT (D) | UNIT PRICE | AMOUNT (F) |
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| US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 | | | | | | |
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

February 27, 2019

ATTACHMENT B SUMMARY OF TASK ORDER OBLIGATION/CEILING AMOUNTS

Contract # EP-W-16-015 Task Order# 68HE0H18F1539 Project#2009

Modification: P00002

| Total Funding/Obligation Amounts | | | | | | | |
|---|-------------|-------------|-------------|--|--|--|--|
| Period Previous Amount This Action Amount | | | | | | | |
| Base Period | \$20,000.00 | \$32,527.00 | \$52,527.00 | | | | |
| Total | \$20,000.00 | \$32,527.00 | \$52,527.00 | | | | |

| Total Task Order Ceiling | | | | | | | |
|---|-------------|---|-------------|--|--|--|--|
| Period Previous Amount This Action Amount | | | | | | | |
| Base Period | \$52,527.00 | - | \$52,527.00 | | | | |
| Total | \$52,527.00 | - | \$52,527.00 | | | | |

| AMENDMENT OF SOLICITATION/MODIFIC | ONTRACT | 1. CONT | RACT ID CODE | PAGE | OF PAGES | |
|--|----------------------------|--|---------------------------------|---|--|----------------------|
| 2. AMENDMENT/MODIFICATION NO. | 3. EFFECTIVE | DATE | 4. REQUISITION/F | PURCHASE REQ. NO. | 5. PROJECT | NO. (If applicable) |
| P00003 | | | | | 2009 | TTO: (II applicable) |
| 6. ISSUED BY CODE | See Blo HPOD | CK 16C | 7. ADMINISTERE | D BY (If other than Item 6) | CODE | |
| HPOD | шов | | | , | | |
| US Environmental Protection | Agency | | | | | |
| William Jefferson Clinton B | | | | | | |
| 1200 Pennsylvania Avenue, N | _ | | | | | |
| Mail Code: 3803R | | | | | | |
| Washington DC 20460 | | | | | | - |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., stre | et, county, State and | I ZIP Code) | x) 9A. AMENDMI | ENT OF SOLICITATION NO. | | |
| WOOD ENVIRONMENT & INFRASTRUCT | URE SOLUT | IONS INC | | | | |
| Attn: JOSEPH FARRELL | ONE GOLOT | 0110, 1110. | 9B. DATED (S | | | |
| 751 Arbor Way | | | | , | | |
| Ste 180 | | Ļ | | | | |
| Blue Bell PA 194221972 | | [: | × 10A. MODIFIC EP-W-16 | CATION OF CONTRACT/ORDER N -015 | 10. | |
| | | | 68HE0H1 | 8F1539 | | |
| | | | 10B. DATED (| SEE ITEM 13) | | |
| CODE 038086125 | FACILITY COL | DE | 06/28/2 | 018 | | |
| | 11 THIS IT | EM ONLY APPLIES TO A | | | | |
| The above numbered collectation is amended as set | | | | | nded. □is n | at outanded |
| The above numbered solicitation is amended as set Offers must acknowledge receipt of this amendment | | es and a newspectuation of | 1.11 11 100001 0.0 17 10 | | | |
| - · · · · · · · · · · · · · · · · · · · | *** | * | | amendment on each copy of the of | 20.0 | · 125 |
| separate letter or electronic communication which in | 255 | | | | | |
| RECEIVED AT THE PLACE DESIGNATED FOR TH | | | | | | |
| OFFER. If by virtue of this amendment you desire to | 10 00 | | in the second control of | 27 NO 31 € 0 TO 1013 ET 15 NOVE 15 ET 10 13 TO 15 | 1945 W WW.90 1941 13445W | |
| each letter or electronic communication makes refer 12. ACCOUNTING AND APPROPRIATION DATA (If re | | deport of | | | NATIONAL AND ADDRESS TO A STATE OF THE STATE | |
| See Schedule | quii eu) | Net | Decrease: | =: | \$2,629.0 | 18 |
| 13. THIS ITEM ONLY APPLIES TO | MODIEICATION C | E CONTRACTS/ORDERS | IT MODIEIES TH | E CONTRACT/ORDER NO. AS DE | SCRIBED IN IT | EM 14 |
| 13. THIS TEM ONE! ALT ELES TO | MODII IOATION C | ON TON TON OR DENO | . 11 1110011 123 111 | E CONTINACTIONDER NO. AC DE | JONIBLE IN I | LI 14. |
| CHECK ONE A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A. | PURSUANT TO: | (Specify authority) THE | CHANGES SET FO | ORTH IN ITEM 14 ARE MADE IN T | HE CONTRAC | т |
| ORDER NO. IN TIEM TOA. | | | | | | |
| B. THE ABOVE NUMBERED CONTRA appropriation data, etc.) SET FOR | ACT/ORDER IS N | ODIFIED TO REFLECT T | HE ADMINISTRAT | IVE CHANGES (such as changes | in paying office | ρ, |
| appropriation data, etc.) SET FOR | THIN HEIVI 14, F | DRSDANT TO THE AUTH | OKITT OF PAR 43 | .103(0). | | |
| C. THIS SUPPLEMENTAL AGREEME | NT IS ENTERED | INTO PURSUANT TO AU | THORITY OF: | | | |
| | | | | | | |
| D. OTHER (Specify type of modification | n and authority) | | | | | |
| X EPA-B-103 - LIMITAT | ION OF GO | OVERNMENT'S OF | BLIGATION | | | |
| E. IMPORTANT: Contractor 🗵 is not | is required | to sign this document and | return | copies to the issuin- | g office. | |
| 14. DESCRIPTION OF AMENDMENT/MODIFICATION | l (Organized by L | ICF section headings, incl | uding solicitation/c | ontract subject matter where feasil | ble.) | |
| DUNS Number: 038086125 | | | | | | |
| The purpose of this modification | ation is | to de-obligat | e funding | in the amount of | \$2,629 | .08 from |
| this task order. | | , | _ | | 10 | |
| enie sasu siasi. | | | | | | |
| I TOW OF CHANCES. | | | | | | |
| LIST OF CHANGES: | 1. 0.1 | | | | | |
| Reason for Modification: Fu | - | - | | | | |
| Obligated Amount for this Me | | | | | | |
| New Total Obligated Amount | for this | Award: \$49,89 | 7.92 | | | |
| Incremental Funded Amount c | nanged: | from | | | | |
| \$52,527.00 to \$49,897.92 | | | | | | |
| • | | | | | | |
| Continued | | | | | | |
| Except as provided herein, all terms and conditions of | erenced in Item 9 A or 10A | , as heretofore cha | anged, remains unchanged and in | full force and e | ffect. | |
| 15A. NAME AND TITLE OF SIGNER (Type or print) | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) | | | | |
| | | | | | | |
| | | | Michael (| J. FOX | | |
| 15B. CONTRACTOR/OFFEROR | | 15C. DATE SIGNED | 16B. UNITED ST | ATES OF AMERICA | | 16C. DATE SIGNED |
| | | | 190001 | | ELECTRONIC S:GNATURE | 07/17/2019 |
| (Signature of person authorized to sign) | | | | (Signature of Contracting Officer) | | 01/11/2013 |

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 EP-W-16-015/68HE0H18F1539/P00003
 2
 2

NAME OF OFFEROR OR CONTRACTOR

| ITEM NO. | SUPPLIES/SERVICES (B) | QUANTITY (C) | UNIT (D) | UNIT PRICE (E) | AMOUNT (F) |
|----------|---|-----------------|-------------|-------------------|------------|
| | CHANGES FOR LINE ITEM NUMBER: 1 Obligated Amount for this Modification: -\$2,629.08 Incremental Funded Amount changed from \$52,527.00 to \$49,897.92 | | | | |
| | CHANGES FOR ACCOUNTING CODE: 19-20-C-58D5-000A45-2505-1958DC9017-001 | | | | |
| | Amount changed from \$32,527.00 to \$29,897.92 | | | | |
| | Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/09/2018 to 07/08/2019 | | | | |
| | 101134 01 101101manee. 01,007,2010 00 01,007,2019 | | | | |
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